5349

```
Asn Ser Lys Lys Lys Lys Lys Lys Xaa Ser Phe Phe Phe Phe Phe Xaa
65                  70              75                  80
```

<210> 6125
<211> 92
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6125
```
Ser Ser Ser Xaa Lys Xaa Asp Xaa Arg Ile Gly Lys Ala Gly Thr Pro
 1           5               10              15

Ala Gly Thr Gly Pro Glu Phe Pro Gly Arg Pro Thr Arg Pro Gly Glu
            20              25              30

Val Leu Phe Ser Thr Cys Gly Val Ser His Trp Lys His Asn Pro Ile
        35              40              45

Val Pro Glu Gly Phe Ser Pro Gln Trp Leu Ser His Pro Lys Arg Lys
    50              55              60

Ser Leu Ser Phe Leu Thr Leu Leu Phe Cys His Leu Leu Pro Leu Asp
65              70              75              80

Asn Gln Gly Gln Gly Ala Thr Trp Lys Cys Leu Thr
                85              90
```

<210> 6126
<211> 105

5350

```
<212> PRT
<213> Homo sapiens

<400> 6126
Asp Glu Glu Ala Lys Asp Glu Lys Ala Glu Pro Asn Arg Asp Lys Ser
 1               5                  10                  15

Val Gly Pro Leu Pro Gln Ala Asp Pro Glu Val Ser Asp Ile Glu Ser
             20                  25                  30

Arg Ile Ala Ala Leu Arg Ala Ala Gly Leu Thr Val Lys Pro Ser Gly
         35                  40                  45

Lys Pro Arg Arg Lys Ser Asn Leu Pro Ala Leu Tyr Glu Gly Thr Leu
     50                  55                  60

Ser Leu Cys Ser Glu Asp Leu Lys His Thr His Pro Asp Ser Val Lys
 65              70                  75                      80

Ser Lys Arg Ser Arg Leu Asn His Val Ala Ser Cys Gly Asn Leu Ser
             85                  90                  95

Pro Pro Pro Arg Glu Asp Gly Cys Asp
             100             105




<210> 6127
<211> 42
<212> PRT
<213> Homo sapiens

<400> 6127
Thr Pro Glu Leu Lys Arg Ser Phe His Leu Ile Leu Gln Ser Ser Trp
 1               5                  10                  15

Asp Tyr Ser Arg Val Ser Thr Cys Leu Ala Asn Phe Ser Phe Leu Ile
             20                  25                  30

Phe Leu Glu Leu Gly Ser His Tyr Val Ala
         35                  40




<210> 6128
<211> 176
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
```

5351

<222> (151)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (154)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (170)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6128
Pro Ala Ala Val Gln Pro Leu Gly Leu Pro Ser Pro Ser Thr Ser Cys
 1   5   10   15

Ser Ser Ala Ser Gln Ala Ile Ala Met Val Phe Val Arg Arg Pro Trp
            20   25   30

Pro Ala Leu Thr Thr Val Leu Leu Ala Leu Leu Val Cys Leu Gly Ala
        35   40   45

Leu Val Asp Ala Tyr Pro Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala
    50   55   60

Ser Pro Glu Glu Leu Asn Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu
65   70   75   80

Asn Leu Val Thr Arg Gln Arg Tyr Gly Lys Arg Asp Gly Pro Asp Thr
            85   90   95

Leu Leu Ser Lys Thr Phe Phe Pro Asp Gly Glu Asp Arg Pro Val Ser
            100   105   110

Arg Gly Lys Ser Ala Arg Tyr His Thr Ser Cys Ile Arg Glu Arg Gly
        115   120   125

Leu Ala Leu Pro Trp Gln His His Leu Thr Thr Ser Pro Arg Leu Ala
    130   135   140

Ser Pro Asp Pro Ile Leu Xaa Phe Val Xaa Gln Ser Glu Gly Gln Thr
145   150   155   160

Val Val Arg Thr Leu Arg Leu Trp Glu Xaa Ala Asn Ser Gln Ser Phe
            165   170   175

5352

```
<210> 6129
<211> 205
<212> PRT
<213> Homo sapiens

<400> 6129
Lys Val His Ser Ser Glu Ala Gly Leu Thr Ser Arg Phe Leu Ile Ala
 1               5                   10                  15

Trp Asp Val His Arg Ala Asn Val Leu Glu Gly Gly Asp Pro Thr Phe
            20                  25                  30

Pro Gln Leu Thr Ala Ser Pro His Ser Met Asp Ser Met Leu Pro Ser
            35                  40                  45

Gly Glu Gly Gly Pro Lys Arg Thr His Pro Thr Val Pro Gly Ile Pro
        50                  55                  60

Gly Gly Thr Arg Ala Gly Ala Gly Lys Ile Gly Arg Met Ile Ala Glu
65                  70                  75                  80

Glu Ile Met Glu Ile His Arg Ile Arg Gly Ser Ser Pro Ser Ser Cys
                85                  90                  95

Gly Ser Ser Pro Leu Asn Ile Thr Ser Thr Pro Pro Pro Asp Ala Ser
            100                 105                 110

Ser Pro Gly Gly Lys Lys Ile Leu Asn Gly Gly Thr Pro Asp Ile Pro
            115                 120                 125

Ser Ser Gly Leu Leu Ser Gly Gln Ala Gln Glu Asn Pro Gly Tyr Pro
        130                 135                 140

Tyr Ser Asp Ser Ser Ser Ile Leu Gly Glu Asn Pro His Ile Gly Ile
145                 150                 155                 160

Asp Met Ile Asp Asn Asp Gln Gly Ser Ser Ser Pro Ser Asn Asp Glu
                165                 170                 175

Ala Ala Met Ala Val Ile Met Ser Leu Leu Glu Ala Asp Ala Gly Leu
            180                 185                 190

Gly Gly Pro Val Asp Phe Ser Asp Leu Pro Trp Pro Leu
        195                 200                 205


<210> 6130
<211> 63
<212> PRT
```

5353

<210> Homo sapiens

<400> 6130
Pro Ala Lys Pro Gln Lys Gly Gln Glu Ser Gly Lys Leu Gln Arg Pro
 1   5   10   15

Lys Arg Gln Gln Leu Ile Val Ser Ser Glu Cys Cys Cys Gln Asn Lys
                20   25   30

Pro Thr Arg Ala Val Phe Ser Pro Cys Pro Asn Gln Ile Lys Val Gln
            35   40   45

Ile Pro Glu Lys Glu Pro Pro Trp Leu Gly Arg Thr Gln Ala His
        50   55   60

<210> 6131
<211> 83
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (82)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6131
Xaa Thr Val Ser Arg Val Arg Ala Leu Tyr Lys Arg Val Leu Gln Leu
 1   5   10   15

His Arg Val Leu Pro Pro Asp Leu Lys Ser Leu Gly Asp Gln Tyr Val
                20   25   30

Lys Asp Glu Phe Arg Arg His Lys Thr Val Gly Ser Asp Glu Ala Gln
            35   40   45

Arg Phe Leu Gln Glu Trp Glu Gly Phe Lys Cys Leu Lys Ser Gly Arg
        50   55   60

Glu Lys Glu Thr Val Phe Lys Glu Phe Lys Ile Leu Lys Trp Lys Arg
65   70   75   80

Pro Xaa Arg

5354

<210> 6132
<211> 53
<212> PRT
<213> Homo sapiens

<400> 6132
Val Gly Leu Glu Ile Asn Met Leu Ala Phe Ile Pro Val Leu Thr Lys
 1   5   10   15

Lys Ile Asn Pro Arg Ser Thr Glu Ala Ala Ile Lys Tyr Phe Leu Thr
                20   25   30

Gln Ala Thr Ala Ser Ile Ile Leu Leu Ile Ala Ile Leu Phe Asn Asn
            35   40   45

Ile Leu Ser Gly Gln
        50

<210> 6133
<211> 180
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6133
Ala Gln Asp Gln Asn Ser Lys Cys Ile Gly Thr Asp Leu Asn Arg Asn
 1   5   10   15

Phe Asn Ala Ser Trp Asn Ser Ile Pro Asn Thr Asn Asp Pro Cys Ala
                20   25   30

Asp Asn Tyr Arg Gly Ser Ala Pro Glu Ser Glu Xaa Glu Thr Lys Xaa
            35   40   45

Val Thr Asn Phe Ile Arg Ser His Leu Asn Glu Ile Lys Val Tyr Ile
        50   55   60

Thr Phe His Ser Tyr Ser Gln Met Leu Leu Phe Pro Tyr Gly Tyr Thr

5355

| 65 | 70 | 75 | 80 |

Ser Lys Leu Pro Pro Asn His Glu Asp Leu Ala Lys Val Ala Lys Ile
              85   90   95

Gly Thr Asp Val Leu Ser Thr Arg Tyr Glu Thr Arg Tyr Ile Tyr Gly
              100   105   110

Pro Ile Glu Ser Thr Ile Tyr Pro Ile Ser Gly Ser Ser Leu Asp Trp
              115   120   125

Ala Tyr Asp Leu Gly Ile Lys His Thr Phe Ala Phe Glu Leu Arg Asp
      130   135   140

Lys Gly Lys Phe Gly Phe Leu Leu Pro Glu Ser Arg Ile Lys Pro Thr
145   150   155   160

Cys Arg Glu Thr Met Leu Ala Val Lys Phe Ile Ala Lys Tyr Ile Leu
              165   170   175

Lys His Thr Ser
          180

<210> 6134
<211> 42
<212> PRT
<213> Homo sapiens

<400> 6134
Met Val Leu Phe Ala Val Thr Gln Thr Thr Leu His Lys Thr Phe Phe
  1   5   10   15

Pro Lys Trp Tyr Lys Phe Ile Asn Tyr His Phe Ser Leu Thr Val Phe
              20   25   30

Val Asn Thr Thr Leu Gln Lys Ser Ala Phe
          35   40

<210> 6135
<211> 212
<212> PRT
<213> Homo sapiens

<400> 6135
Phe Tyr Leu Gly Ser Ser Thr Ala Ser Asp Phe Leu Ala Val Glu Met
  1   5   10   15

5356

Arg Arg Gly Arg Val Ala Phe Leu Trp Asp Leu Gly Ser Gly Ser Thr
            20   25   30

Arg Leu Glu Phe Pro Asp Phe Pro Ile Asp Asp Asn Arg Trp His Ser
        35   40   45

Ile His Val Ala Arg Phe Gly Asn Ile Gly Ser Leu Ser Val Lys Glu
    50   55   60

Met Ser Ser Asn Gln Lys Ser Pro Thr Lys Thr Ser Lys Ser Pro Gly
65   70   75   80

Thr Ala Asn Val Leu Asp Val Asn Asn Ser Thr Leu Met Phe Val Gly
                85   90   95

Gly Leu Gly Gly Gln Ile Lys Lys Ser Pro Ala Val Lys Val Thr His
            100   105   110

Phe Lys Gly Cys Leu Gly Glu Ala Phe Leu Asn Gly Lys Ser Ile Gly
        115   120   125

Leu Trp Asn Tyr Ile Glu Arg Glu Gly Lys Cys Arg Gly Cys Phe Gly
    130   135   140

Ser Ser Gln Asn Glu Asp Pro Ser Phe His Phe Asp Gly Ser Gly Tyr
145   150   155   160

Ser Val Val Glu Lys Ser Leu Pro Ala Thr Val Thr Gln Ile Ile Met
            165   170   175

Leu Phe Asn Thr Phe Ser Pro Asn Gly Leu Leu Ser Leu Pro Gly Phe
            180   185   190

Ile Arg His Lys Arg Leu Phe Ile His Arg Ala Val Ser Trp Gln Ser
    195   200   205

Glu Gly Tyr Asp
    210

<210> 6136
<211> 75
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6136
His Ala Ser Pro Pro Ser Glu Lys Lys Ile Leu Arg Gln Ser Met Cys
  1   5   10   15

Phe Ser Cys Pro Ser Xaa His Arg Ser Leu Ser Xaa Thr Gln Xaa Asp
              20   25   30

Phe Ser Gly Val Lys Phe Arg Arg His Gly Ala Asp Asn His Glu Ala
          35   40   45

Ser Ala Ala Thr Ala Thr Thr Ala Ala Ala Thr Thr Val Ala Ala Ala
      50   55   60

Ala Ala Ala Ala Ala Ala Arg Val Thr Leu Thr
65   70   75

<210> 6137
<211> 186
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6137
Lys Leu Thr Leu Thr Lys Gly Xaa Lys Ser Trp Glu Leu His Arg Gly
  1   5   10   15

Asp Xaa Arg Ser Arg Thr Ser Gly Ser Pro Gly Leu Gln Glu Phe Gly
              20   25   30

Thr Arg Thr Thr Glu Gly Glu Glu Ile Thr Glu Ser Ser Ser Thr Glu

5358

```
              35                        40                        45

Glu Met Glu Val Arg Ser Val Val Ala Asp Thr Asp Gln Lys Ala Leu
    50                        55                        60

Gly Ser Glu Val Gln Asp Ala Ser Lys Val Thr Thr Gln Ile Asp Lys
65                        70                        75                        80

Glu Lys Lys Glu Ile Pro Val Ser Ile Lys Lys Glu Pro Glu Val Thr
                    85                        90                        95

Val Val Ser Gln Pro Thr Glu Pro Gln Pro Val Leu Ile Pro Ser Ile
                100                       105                       110

Asn Ile Asn Ser Asp Ser Gly Glu Asn Lys Glu Glu Ile Gly Ser Leu
                115                       120                       125

Ser Lys Thr Glu Thr Ile Leu Pro Pro Glu Ser Glu Asn Pro Lys Glu
    130                       135                       140

Asn Asp Asn Asp Ser Gly Thr Gly Ser Thr Ala Asp Thr Ser Ser Ile
145                       150                       155                       160

Asp Leu Asn Leu Ser Ile Ser Ser Phe Leu Ser Lys Thr Lys Asp Ser
                165                       170                       175

Gly Ser Ile Ser Leu Gln Glu Thr Lys Lys
                180                       185
```

```
<210> 6138
<211> 87
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids
```

5359

```
<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6138
Xaa Xaa Leu Leu Lys Gly Thr Lys Xaa Gly Ser Ser Thr Ala Val Xaa
 1               5                  10                  15


Thr Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg
            20                  25                  30


Ala Gly Ser Gly Pro Glu Pro Glu Ser Glu Ser Glu Ser Glu Ser Glu
            35                  40                  45


Pro Lys Ser Glu Cys Gln Ser Glu Pro Asp Ser Glu Ser Asp Ala Glu
        50                  55                  60


Ser Asp Ser Glu Phe Glu Pro Glu Gly Glu Pro Gly Lys Pro Glu Ala
 65                  70                  75                  80


Glu Leu Arg Gln Gly Ala Glu
                    85




<210> 6139
<211> 86
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (73)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6139
Arg Ala Phe Gly Gln Ala Arg Xaa Ala Ala Glu Ala Ile Ser Leu Thr
 1               5                  10                  15


Gln Gly Arg Ser Cys Pro Glu Pro Ala Thr Ala Leu Ser Gln Pro Ala
```

5360

```
                20                    25                    30

Ser Phe Ser Val Leu Pro Xaa Pro Arg Leu Pro Arg Arg Gly Tyr Pro
        35                    40                    45

Gln Pro Gln Pro Gly Ala Gly Glu Ala Ala Lys Gly Glu Gly Arg Asn
    50                    55                    60

Gln Gly Met Ser Ala Gly Arg Ala Xaa Gly Ala Leu Ser Arg Thr Arg
65                    70                    75                    80

Thr Ala Leu Gly Ala Gly
                85
```

<210> 6140
<211> 594
<212> PRT
<213> Homo sapiens

<400> 6140
```
Arg Gln Ile Phe Gln Ser Leu Pro Pro Phe Met Asp Ile Leu Leu Leu
  1                 5                  10                   15

Leu Leu Phe Phe Met Ile Ile Phe Ala Ile Leu Gly Phe Tyr Leu Phe
            20                    25                    30

Ser Pro Asn Pro Ser Asp Pro Tyr Phe Ser Thr Leu Glu Asn Ser Ile
            35                    40                    45

Val Ser Leu Phe Val Leu Leu Thr Thr Ala Asn Phe Pro Asp Val Met
    50                    55                    60

Met Pro Ser Tyr Ser Arg Asn Pro Trp Ser Cys Val Phe Phe Ile Val
65                    70                    75                    80

Tyr Leu Ser Ile Glu Leu Tyr Phe Ile Met Asn Leu Leu Leu Ala Val
                85                    90                    95

Val Phe Asp Thr Phe Asn Asp Ile Glu Lys Arg Lys Phe Lys Ser Leu
            100                   105                   110

Leu Leu His Lys Arg Thr Ala Ile Gln His Ala Tyr Arg Leu Leu Ile
            115                   120                   125

Ser Gln Arg Arg Pro Ala Gly Ile Ser Tyr Arg Gln Phe Glu Gly Leu
    130                   135                   140

Met Arg Phe Tyr Lys Pro Arg Met Ser Ala Arg Glu Arg Tyr Leu Thr
145                   150                   155                   160
```

5361

```
Phe Lys Ala Leu Asn Gln Asn Asn Thr Pro Leu Leu Ser Leu Lys Asp
            165             170             175

Phe Tyr Asp Ile Tyr Glu Val Ala Ala Leu Lys Trp Lys Ala Lys Lys
            180             185             190

Asn Arg Glu His Trp Phe Asp Glu Leu Pro Arg Thr Ala Leu Leu Ile
        195             200             205

Phe Lys Gly Ile Asn Ile Leu Val Lys Ser Lys Ala Phe Gln Tyr Phe
    210             215             220

Met Tyr Leu Val Val Ala Val Asn Gly Val Trp Ile Leu Val Glu Thr
225             230             235             240

Phe Met Leu Lys Gly Gly Asn Phe Phe Ser Lys His Val Pro Trp Ser
            245             250             255

Tyr Leu Val Phe Leu Thr Ile Tyr Gly Val Glu Leu Phe Leu Lys Val
            260             265             270

Ala Gly Leu Gly Pro Val Glu Tyr Leu Ser Ser Gly Trp Asn Leu Phe
            275             280             285

Asp Phe Ser Val Thr Val Phe Ala Phe Leu Gly Leu Leu Ala Leu Ala
    290             295             300

Leu Asn Met Glu Pro Phe Tyr Phe Ile Val Val Leu Arg Pro Leu Gln
305             310             315             320

Leu Leu Arg Leu Phe Lys Leu Lys Glu Arg Tyr Arg Asn Val Leu Asp
            325             330             335

Thr Met Phe Glu Leu Leu Pro Arg Met Ala Ser Leu Gly Leu Thr Leu
            340             345             350

Leu Ile Phe Tyr Tyr Ser Phe Ala Ile Val Gly Met Glu Phe Phe Cys
            355             360             365

Gly Ile Val Phe Pro Asn Cys Cys Asn Thr Ser Thr Val Ala Asp Ala
    370             375             380

Tyr Arg Trp Arg Asn His Thr Val Gly Asn Arg Thr Val Val Glu Glu
385             390             395             400

Gly Tyr Tyr Tyr Leu Asn Asn Phe Asp Asn Ile Leu Asn Ser Phe Val
            405             410             415

Thr Leu Phe Glu Leu Thr Val Val Asn Asn Trp Tyr Ile Ile Met Glu
            420             425             430
```

5362

```
Gly Val Thr Ser Gln Thr Ser His Trp Ser Arg Leu Tyr Phe Met Thr
        435             440             445

Phe Tyr Ile Val Thr Met Val Val Met Thr Ile Ile Val Ala Phe Ile
    450             455             460

Leu Glu Ala Phe Val Phe Arg Met Asn Tyr Ser Arg Lys Asn Gln Asp
465             470             475             480

Ser Glu Val Asp Gly Gly Ile Thr Leu Glu Lys Glu Ile Ser Lys Glu
            485             490             495

Glu Leu Val Ala Val Leu Glu Leu Tyr Arg Glu Ala Arg Gly Ala Ser
        500             505             510

Ser Asp Val Thr Arg Leu Leu Glu Thr Leu Ser Gln Met Glu Arg Tyr
        515             520             525

Gln Gln His Ser Met Val Phe Leu Gly Arg Arg Ser Arg Thr Lys Ser
    530             535             540

Asp Leu Ser Leu Lys Met Tyr Gln Glu Glu Ile Gln Glu Trp Tyr Glu
545             550             555             560

Glu His Ala Arg Glu Gln Glu Gln Gln Arg Gln Leu Ser Ser Ser Ala
            565             570             575

Ala Pro Ala Ala Gln Gln Pro Pro Gly Ser Arg Gln Arg Ser Gln Thr
        580             585             590

Val Thr
```

```
<210> 6141
<211> 377
<212> PRT
<213> Homo sapiens

<400> 6141
Leu Ala Glu Ala Thr Lys Lys Glu Ile Thr Phe Phe Gln Thr His Pro
  1             5             10             15

Tyr Phe Arg Val Leu Leu Glu Glu Gly Ser Ala Thr Val Pro Arg Leu
            20             25             30

Ala Glu Arg Leu Thr Thr Glu Leu Ile Met His Ile Gln Lys Ser Leu
        35             40             45
```

5363

Pro Leu Leu Glu Gly Gln Ile Arg Glu Ser His Gln Lys Ala Thr Glu
    50   55   60

Glu Leu Arg Arg Cys Gly Ala Asp Ile Pro Ser Gln Glu Ala Asp Lys
65   70   75   80

Met Phe Phe Leu Ile Glu Lys Ile Lys Met Phe Asn Gln Asp Ile Glu
              85   90   95

Lys Leu Val Glu Gly Glu Glu Val Val Arg Glu Asn Glu Thr Arg Leu
        100   105   110

Tyr Asn Lys Ile Arg Glu Asp Phe Lys Asn Trp Val Gly Ile Leu Ala
        115   120   125

Thr Asn Thr Gln Lys Val Lys Asn Ile Ile His Glu Glu Val Glu Lys
    130   135   140

Tyr Glu Lys Gln Tyr Arg Gly Lys Glu Leu Leu Gly Phe Val Asn Tyr
145   150   155   160

Lys Thr Phe Glu Ile Ile Val His Gln Tyr Ile Gln Gln Leu Val Glu
              165   170   175

Pro Ala Leu Ser Met Leu Gln Lys Ala Met Glu Ile Ile Gln Gln Ala
            180   185   190

Phe Ile Asn Val Ala Lys Lys His Phe Gly Glu Phe Phe Asn Leu Asn
        195   200   205

Gln Thr Val Gln Ser Thr Ile Glu Asp Ile Lys Val Lys His Thr Ala
    210   215   220

Lys Ala Glu Asn Met Ile Gln Leu Gln Phe Arg Met Glu Gln Met Val
225   230   235   240

Phe Cys Gln Asp Gln Ile Tyr Ser Val Val Leu Lys Lys Val Arg Glu
            245   250   255

Glu Ile Phe Asn Pro Leu Gly Thr Pro Ser Gln Asn Met Lys Leu Asn
        260   265   270

Ser His Phe Pro Ser Asn Glu Ser Ser Val Ser Ser Phe Thr Glu Ile
        275   280   285

Gly Ile His Leu Asn Ala Tyr Phe Leu Glu Thr Ser Lys Arg Leu Ala
    290   295   300

Asn Gln Ile Pro Phe Ile Ile Gln Tyr Phe Met Leu Arg Glu Asn Gly
305   310   315   320

5364

Asp Ser Leu Gln Lys Ala Met Met Gln Ile Leu Gln Glu Lys Asn Arg
        325   330   335

Tyr Ser Trp Leu Leu Gln Glu Gln Ser Glu Thr Ala Thr Lys Arg Arg
        340   345   350

Ile Leu Lys Glu Arg Ile Tyr Arg Leu Thr Gln Ala Arg His Ala Leu
        355   360   365

Cys Gln Phe Ser Ser Lys Glu Ile His
    370   375

<210> 6142
<211> 87
<212> PRT
<213> Homo sapiens

<400> 6142
Gln Ile Lys Gly Glu Val Leu Ala Lys Ser Ile Cys Glu Asp Asp Thr
  1   5   10   15

Leu Gly Ile Ala Gly His Lys Thr Gly Lys Val Gly Lys Cys Ser Leu
            20   25   30

Asn Gly Ala Tyr Thr Leu Ser Tyr Arg Gln Trp Glu Ala Leu Gly Lys
        35   40   45

Asn Thr Val Ile Arg Lys Phe Cys Ile His Phe Ser Asn Gly Glu Lys
    50   55   60

Leu Gly Asn Ser Leu Leu Gly Gly Ser Leu Trp Ala Gly Ile Ser Gln
 65   70   75   80

Leu Ile Ser Gly Phe Ile Phe
            85

<210> 6143
<211> 43
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6143

5365

```
Ile Arg His Arg Leu Asp Leu Leu Leu Gly Val Arg Glu Lys Ser Val
 1               5                   10                  15

Ser Xaa Leu Leu Val Leu Leu Pro· Lys Cys Phe Tyr Lys Glu Met Thr
            20                  25                  30

Gly Asp Ile Tyr Ser Pro Lys Glu Leu Ile Tyr
            35                  40
```

```
<210> 6144
<211> 76
<212> PRT
<213> Homo sapiens

<400> 6144
His Lys Arg Cys Leu Ile Phe Ile Gln Ala Ile Phe Ala His Ile His
 1               5                   10                  15

Gln Asn Gly Met Thr Gln Gly Lys Asn His Phe Ala Lys Gly Asn Lys
            20                  25                  30

Thr Ser Cys Arg Gln Leu Asp Thr Phe Arg Leu Phe Arg Lys Val Cys
            35                  40                  45

Thr Gly Thr Leu Ile Gly Ile Leu Leu Val Tyr Leu Leu Ser Tyr Phe
       50                  55                  60

Lys Val Val Ala Leu Ile Ile Val Val Ser Val Phe
 65                  70                  75
```

```
<210> 6145
<211> 112
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (76)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6145
Trp Met Lys Met Arg Lys Thr Glu Pro Arg Glu Leu Leu Glu Thr Ser
 1               5                   10                  15

Leu Arg Lys Lys Arg Arg Asp Gln Phe Asn Val Leu Ile Lys Glu Leu
            20                  25                  30
```

5366

Ser Ser Met Leu Pro Gly Asn Thr Arg Lys Met Asp Lys Thr Thr Val
        35   40   45

Leu Glu Lys Val Ile Gly Phe Leu Gln Lys His Asn Glu Val Ser Ala
    50   55   60

Gln Thr Glu Ile Cys Asp Ile Gln Gln Asp Trp Xaa Pro Ser Phe Leu
65   70   75   80

Ser Asn Glu Glu Phe Thr Gln Leu Met Leu Glu Ser His Phe Arg Asp
                85   90   95

Cys Glu Glu Ser Arg Cys His Val Leu Val Ala Arg Met Phe Pro Phe
            100   105   110

<210> 6146
<211> 75
<212> PRT
<213> Homo sapiens

<400> 6146
Ser Phe Thr Pro Ala Asn Thr Ser Ile Leu Leu Ile Asn Gly Asn Ile
1   5   10   15

Leu Met Cys His Phe Leu Ser Lys Gln Val Ser Tyr Thr Ala Pro Arg
            20   25   30

Gly Pro Arg Glu Ala Glu Ala Gln Thr Glu Gly Glu His Ser Leu Ala
        35   40   45

Gly Arg His Met Pro Gly Arg Met Thr Ile Gly Ile Ala Ser Ser Ile
    50   55   60

Asn Gln Leu Leu Lys Gly Phe Leu Ser Asp Ser
65   70   75

<210> 6147
<211> 32
<212> PRT
<213> Homo sapiens

<400> 6147
Thr Leu Cys Val Gly Ser Trp Gln Ala Ala Met Ser Leu Gly Ile Ile
1   5   10   15

```
Glu Ile Ile Asp Asp Thr Glu His Ser Tyr Ala Leu Ser Leu Tyr Ser
          20                  25              30
```


<210> 6148
<211> 42
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6148
```
Gln Asp Arg Lys Gly Asp Arg Xaa Arg Leu Tyr Leu Lys Lys Xaa Xaa
 1               5               10              15

Thr Ile Leu Phe Leu Ile Leu Phe Asn Ser Ser Phe Leu Phe Phe Ser
              20                  25              30

Pro Trp Leu Leu Cys Ser Leu Ile Val Ile
          35                  40
```


<210> 6149
<211> 74
<212> PRT
<213> Homo sapiens

<400> 6149
```
Asp Phe Phe Phe Lys Arg Thr Phe Lys Ile Met Ile Ser Asn Phe Asn
 1               5               10              15

Cys Ile Tyr Arg Gly Phe Lys Glu Ser Leu Ile Ser Cys Thr Leu Leu
```

5368

```
            20                    25                    30

Arg Leu Ser Tyr Ser Phe Ser His Pro Arg Thr Gly Leu Pro Leu Arg
        35                    40                    45

Glu Ala Asp Pro Leu Gln Val Ala Ile Thr Val Val Ala Ser Ser Ala
        50                    55                    60

Ser Arg Leu Leu Gln Ser Arg Val Pro Phe
65                    70
```

```
<210> 6150
<211> 35
<212> PRT
<213> Homo sapiens

<400> 6150
Leu Thr Leu Tyr Asp Met Cys Lys Ala Val Ser Arg Asp Ile Val Leu
   1               5                   10                  15

Glu Glu Ile Lys Leu Ile Ser Lys Thr Gly Gly Gln Arg Gly Asp Phe
                20                  25                  30

His Arg Ala
        35
```

```
<210> 6151
<211> 46
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (43)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6151
Leu Ser Thr Glu Cys Asp Arg Tyr Cys Ser Lys His Phe Ile Cys Asn
   1               5                   10                  15

Asp Leu Leu Leu Gln Asn Thr Pro Met Ser Asn Val Leu Leu Ser Pro
                20                  25                  30

Tyr Leu Gln Leu Arg Lys Leu Gly Thr Glu Xaa Leu Ser Asn
        35                  40                  45
```

<210> 6152
<211> 66
<212> PRT
<213> Homo sapiens

<400> 6152
Ala Lys Ile Lys Gly Leu Gln Lys His Ser Phe Leu Cys Cys Ser Leu
 1   5   10   15

Leu Gly Phe Met Gln Arg Gln Phe Cys Val Asn Val Gln Leu Thr Leu
                 20   25   30

Ile Trp Lys Tyr Glu Asn Gln Ser Ile Leu Val Ile Lys Asn Phe Phe
             35   40   45

Thr Ile Val Ile Ile Leu Met Phe Ile Leu Cys Lys Ile Thr His Leu
     50   55   60

Ile Lys
 65

<210> 6153
<211> 52
<212> PRT
<213> Homo sapiens   .

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6153
Gly Val Leu Gly Gln Xaa Val Thr Xaa Tyr Phe Ser Gln Pro Leu Xaa
 1   5   10   15

Cys Asp Trp Arg Thr Leu Leu Phe Ser His Val Phe Leu Ile Met Pro
                 20   25   30

5370

Glu Ser Pro Thr Pro Leu Leu Gly Arg Asp Ile Leu Gly Lys Ala Gly
        35   40   45

Ala Val Ile His
        50

<210> 6154
<211> 83
<212> PRT
<213> Homo sapiens

<400> 6154
Ser Val Trp Gly Ser Val Ser Phe Pro Gly Ser Trp His Ser Ser Gly
  1   5   10   15

Pro Leu Ser Leu Pro Leu Leu Gly Glu Gly Gly Lys Arg Glu Ile Pro
                20   25   30

Ser Ser Gln Pro Glu Arg Ala Glu Ala Asp Arg Ser Pro Leu Ala Leu
        35   40   45

Cys Ala Cys Val Arg Ala Ser Val Ser Leu Leu Val Gly Arg Ser Asp
        50   55   60

Val Val Gly Gly Lys Pro Gly Met Tyr Pro Phe Gln Thr Lys Leu Asn
  65   70   75   80

Ile Leu Lys

<210> 6155
<211> 96
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (69)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6155
Glu Asn Ala Leu Gln Thr Phe Leu His Pro Thr Pro Pro Asn Ser Glu

5371

```
     1                  5                  10                 15

   Ala Cys Trp Asp Pro Ser Ser Pro Ile Gly Ser Pro Gly Xaa Pro Ser
                20                  25                 30

   Val Phe Thr Gln Ser Arg Pro Phe Phe Arg Ser Phe Pro Val Arg Gly
                35                  40                 45

   Arg Tyr Thr Trp Thr Arg Ile Tyr Pro His Leu Thr Thr Leu Lys Ser
                50                  55                 60

   Cys Phe Leu Pro Xaa Ile His Ile Leu Ser Ser Cys His Leu Pro Ile
    65                  70                 75                 80

   Gln Leu His Ile Cys Leu Ile Ala Leu Phe Phe Ser Val His Leu Ser
                    85                  90                 95
```

<210> 6156
<211> 89
<212> PRT
<213> Homo sapiens

<400> 6156
```
   Leu Ala Ile Ser Phe Thr Lys Met Ser Ser Ala Ala Glu Asn Gly Glu
      1                 5                  10                 15

   Ala Ala Pro Gly Lys Gln Asn Glu Glu Lys Thr Tyr Lys Lys Thr Ala
                20                  25                 30

   Ser Ser Ala Ile Lys Gly Ala Ile Gln Leu Gly Ile Gly Tyr Thr Val
                35                  40                 45

   Gly Asn Leu Thr Ser Lys Pro Glu Pro Arg Cys Ser Tyr Ala Arg Leu
          50                  55                 60

   Leu Cys Gly Gly Lys Cys Val Pro Thr Gln Arg Arg Glu Ala Ile Leu
    65                  70                 75                 80

   Thr Pro Ala His His Tyr Pro Arg Leu
                    85
```

<210> 6157
<211> 36
<212> PRT

5372

<213> Homo sapiens

<400> 6157
Thr Ala Cys Lys Ile Leu Tyr Met Arg Cys Cys Arg Tyr Arg Asn Glu
  1   5   10   15

Phe Ser Val His Val Trp Leu Ile Phe Phe Val His Asp Phe Cys Met
                20   25   30

Phe Pro Phe Gln
        35

<210> 6158
<211> 387
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6158
Pro Ala Gln Arg Pro Pro Pro Ala Xaa Gly Ala Ser Arg Gly Pro Gly
  1   5   10   15

Gln Thr Arg Cys Glu Met Glu Lys Tyr Leu Thr Pro Gln Leu Pro Pro
                20   25   30

Val Pro Ile Ile Pro Glu His Lys Lys Tyr Arg Arg Asp Ser Ala Ser
            35   40   45

Val Val Asp Gln Phe Phe Thr Asp Thr Glu Gly Leu Pro Tyr Ser Ile
    50   55   60

Asn Met Asn Val Phe Leu Pro Asp Ile Thr His Leu Arg Thr Gly Leu
 65   70   75   80

Tyr Lys Ser Gln Arg Pro Cys Val Thr His Ile Lys Thr Glu Pro Val
                85   90   95

Ala Ile Phe Ser His Gln Ser Glu Thr Thr Ala Pro Pro Pro Ala Pro
                100   105   110

Thr Gln Ala Leu Pro Glu Phe Thr Ser Ile Phe Ser Ser His Gln Thr
            115   120   125

Ala Ala Pro Glu Val Asn Asn Ile Phe Ile Lys Gln Glu Leu Pro Thr
            130   135   140

5373

```
Pro Asp Leu His Leu Ser Val Pro Thr Gln Gln Gly His Leu Tyr Gln
145                 150             155                 160

Leu Leu Asn Thr Pro Asp Leu Asp Met Pro Ser Ser Thr Asn Gln Thr
                165             170                 175

Ala Ala Met Asp Thr Leu Asn Val Ser Met Ser Ala Ala Met Ala Gly
            180             185                 190

Leu Asn Thr His Thr Ser Ala Val Pro Gln Thr Ala Val Lys Gln Phe
        195             200                 205

Gln Gly Met Pro Pro Cys Thr Tyr Thr Met Pro Ser Gln Phe Leu Pro
    210             215                 220

Gln Gln Ala Thr Tyr Phe Pro Pro Ser Pro Ser Ser Glu Pro Gly
225             230                 235                 240

Ser Pro Asp Arg Gln Ala Glu Met Leu Gln Asn Leu Thr Pro Pro Pro
            245             250                 255

Ser Tyr Ala Ala Thr Ile Ala Ser Lys Leu Ala Ile His Asn Pro Asn
            260             265                 270

Leu Pro Thr Thr Leu Pro Val Asn Ser Gln Asn Ile Gln Pro Val Arg
        275             280                 285

Tyr Asn Arg Arg Ser Asn Pro Asp Leu Glu Lys Arg Arg Ile His Tyr
    290             295                 300

Cys Asp Tyr Pro Gly Cys Thr Lys Val Tyr Thr Lys Ser Ser His Leu
305             310                 315                 320

Lys Ala His Leu Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Thr
            325             330                 335

Trp Glu Gly Cys Asp Trp Arg Phe Ala Arg Ser Asp Glu Leu Thr Arg
            340             345                 350

His Tyr Arg Lys His Thr Gly Ala Lys Pro Phe Gln Cys Gly Val Cys
        355             360                 365

Asn Arg Ser Phe Ser Arg Ser Asp His Leu Ala Leu His Met Lys Arg
    370             375                 380

His Gln Asn
385
```

5374

```
<210> 6159
<211> 81
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6159
Thr Gly Asn Ser Gln Ser Xaa Phe Thr His His Leu Pro Val Asn Ser
  1               5                   10                  15


Gln Asn Xaa Gln Pro Val Arg Tyr Asn Arg Arg Ser Asn Pro Asp Leu
             20                  25                  30


Glu Lys Arg Arg Ile His Tyr Cys Asp Tyr Pro Gly Cys Thr Lys Val
             35                  40                  45


Tyr Thr Lys Ser Ser His Leu Lys Ala His Leu Arg Thr His Thr Gly
     50                  55                  60


Glu Val Ile Ser Thr Arg Leu Phe Cys Phe Asn Leu Gln Lys Glu Gly
 65                  70                  75                  80


Val
```



```
<210> 6160
<211> 142
<212> PRT
<213> Homo sapiens

<400> 6160
Val Leu Pro Pro Leu Leu Ile Met Leu Val Ile Tyr Ile Lys Ile Phe
  1               5                   10                  15


Leu Val Ala Cys Arg Gln Leu Gln Arg Thr Glu Leu Met Asp His Ser
             20                  25                  30


Arg Thr Thr Leu Gln Arg Glu Ile His Ala Ala Lys Ser Leu Ala Met
             35                  40                  45
```

5375

Ile Val Gly Ile Phe Ala Leu Cys Trp Leu Pro Val His Ala Val Asn
    50   55   60

Cys Val Thr Leu Phe Gln Pro Ala Gln Gly Lys Asn Lys Pro Lys Trp
65   70   75   80

Ala Met Asn Met Ala Ile Leu Leu Ser His Ala Asn Ser Val Val Asn
                85   90   95

Pro Ile Val Tyr Ala Tyr Arg Asn Arg Asp Phe Arg Tyr Thr Phe His
                100   105   110

Lys Ile Ile Ser Arg Tyr Leu Leu Cys Gln Ala Asp Val Lys Ser Gly
            115   120   125

Asn Gly Gln Ala Gly Val Gln Pro Ala Leu Gly Val Gly Leu
    130   135   140

<210> 6161
<211> 69
<212> PRT
<213> Homo sapiens

<400> 6161
Lys Ser Ile Glu Gln Lys Gly Met His Ala Val Phe Gln Trp Leu Arg
    1   5   10   15

His Ala Phe Tyr Ser Leu Thr Ser Ile His Phe Phe Thr Thr Cys Ile
                20   25   30

Lys Thr Asn Asp Leu Cys Phe Cys His Arg Gln Lys Gln Val Asp Thr
            35   40   45

Gly Gly Leu Ala Leu Leu Ile Asn Phe Phe Ser Ile Arg Phe Ser Leu
    50   55   60

Ile Met Leu Asn Phe
65

<210> 6162
<211> 96
<212> PRT
<213> Homo sapiens

<400> 6162
Phe Ser Lys His Asn Leu Ile Pro Asn Arg Phe Pro Leu Asn Gly Leu
    1   5   10   15

5376

```
Arg Cys Val Arg Thr Trp Ala Arg Ala Gly Arg Thr Ile Leu Ile Pro
        20                      25                  30

Leu Phe Pro Ala Tyr His Leu Cys Ser Pro Phe Ser Ser Leu Pro Phe
        35                  40                  45

Asn Cys Leu Leu Cys Phe Val Ser Tyr His Cys Cys Trp Cys Leu Glu
    50                  55                  60

Pro Ala Ser Ser Thr Trp Gln Thr Ser Arg Pro Cys Gly Gln Arg Leu
65                  70                  75                  80

Gly Leu His Ile Tyr Ile Ser Gln Met Ile Trp Val Asp Gly Asp Arg
                85                  90                  95
```

<210> 6163
<211> 53
<212> PRT
<213> Homo sapiens

<400> 6163
```
Ile Leu Cys Thr Arg Ile Pro Gly Arg Val Phe Tyr Pro Trp Lys Gln
    1               5               10                  15

Val Ser Asp Tyr Phe Val Phe Thr Val Arg Val Ser Ser Leu Glu Met
            20                  25                  30

Leu Thr Leu Lys Ser Val Phe Phe Ser Leu Tyr Leu Lys Ile Val Asn
        35                  40                  45

Ile Leu Ile Ser Ser
        50
```

<210> 6164
<211> 105
<212> PRT
<213> Homo sapiens

<400> 6164
```
Ile Arg His Glu Gly Ala Gly Pro Ser Gln Leu Arg Leu His Tyr Pro
    1               5               10                  15

Arg Ile Ser Met Ala Val Arg Gln Trp Val Ile Ala Leu Ala Leu Ala
```

5377

```
                    20                      25                      30
Ala Leu Leu Val Val Asp Arg Glu Val Pro Val Ala Ala Gly Lys Leu
            35                      40                      45

Pro Phe Ser Arg Met Pro Ile Cys Glu His Met Val Glu Ser Pro Thr
        50                      55                      60

Cys Ser Gln Met Ser Asn Leu Val Cys Gly Thr Asp Gly Leu Thr Tyr
65                      70                      75                      80

Thr Asn Glu Cys Gln Leu Cys Leu Ala Arg Ile Lys Thr Lys Gln Asp
                    85                      90                      95

Ile Gln Ile Met Lys Asp Gly Lys Cys
                100                     105
```

<210> 6165
<211> 69
<212> PRT
<213> Homo sapiens

<400> 6165
```
His Arg Leu Asp Phe Leu Gln Leu Met Ile Asp Ser Gln Asn Ser Lys
 1               5                      10                      15

Glu Thr Glu Ser His Lys Ala Leu Ser Asp Leu Glu Leu Ala Ala Gln
                20                      25                      30

Ser Ile Ile Phe Ile Phe Ala Gly Tyr Glu Thr Thr Ser Ser Val Leu
            35                      40                      45

Ser Phe Thr Leu Tyr Glu Leu Ala Thr His Pro Asp Val Gln Gln Lys
        50                      55                      60

Leu Gln Lys Gly Asp
 65
```

<210> 6166
<211> 79
<212> PRT
<213> Homo sapiens

<400> 6166
```
His Arg Leu Asp Phe Leu Gln Leu Met Ile Asp Ser Gln Asn Ser Lys
 1               5                      10                      15
```

5378

```
Glu Thr Glu Ser His Lys Ala Leu Ser Asp Leu Glu Leu Ala Ala Gln
            20                  25                  30

Ser Ile Ile Phe Ile Phe Ala Gly Tyr Glu Thr Thr Ser Ser Val Leu
            35                  40                  45

Ser Phe Thr Leu Tyr Glu Leu Ala Thr His Pro Asp Val Gln Gln Lys
        50                  55                  60

Leu Gln Lys Glu Ile Asp Ala Val Leu Pro Asn Lys Val Arg Gly
    65                  70                  75


<210> 6167
<211> 119
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (115)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6167
Xaa Glu His Pro Ser Thr Ala Pro Gly Lys Met Ser Thr Glu Gly Gly
    1           5               10                  15

Gly Arg Arg Cys Gln Ala Gln Val Ser Arg Arg Ile Ser Phe Ser Ala
            20                  25                  30

Ser His Arg Leu Tyr Ser Lys Phe Leu Ser Asp Glu Glu Asn Leu Lys
            35                  40                  45

Leu Phe Gly Lys Cys Asn Asn Pro Asn Gly His Gly His Asn Tyr Lys
        50                  55                  60

Val Val Val Thr Val His Gly Glu Ile Asp Pro Ala Thr Gly Met Val
    65                  70                  75                  80

Met Asn Leu Ala Asp Leu Lys Lys Tyr Met Glu Glu Ala Ile Met Gln
                85                  90                  95

Pro Leu Asp His Lys Asn Leu Asp Met Asp Val Pro Tyr Phe Ala Asp
                100                 105                 110
```

5379

Val Val Xaa Leu Pro Gly Leu
        115

<210> 6168
<211> 192
<212> PRT
<213> Homo sapiens

<400> 6168
Pro Glu Gln Arg Gly Ser Ser Met Ala His Gly Pro Gly Ala Leu Met
  1   5   10   15

Leu Lys Cys Val Val Val Gly Asp Gly Ala Val Gly Lys Thr Cys Leu
            20   25   30

Leu Met Ser Tyr Ala Asn Asp Ala Phe Pro Glu Ser Thr Cys Pro Pro
            35   40   45

Ser Ser Thr Thr Thr Gln Glu Asp Tyr Asp Arg Leu Arg Pro Leu Ser
        50   55   60

Tyr Pro Met Thr Asp Val Phe Leu Ile Cys Phe Ser Val Val Asn Pro
 65   70   75   80

Ala Ser Phe Gln Asn Val Lys Glu Glu Trp Val Pro Glu Leu Lys Glu
                85   90   95

Tyr Ala Pro Asn Val Pro Phe Leu Leu Ile Gly Thr Gln Ile Asp Leu
            100   105   110

Arg Asp Asp Pro Lys Thr Leu Ala Arg Leu Asn Asp Met Lys Glu Lys
        115   120   125

Pro Ile Cys Val Glu Gln Gly Gln Lys Leu Ala Lys Glu Ile Gly Ala
    130   135   140

Cys Cys Tyr Val Glu Cys Ser Ala Leu Thr Gln Lys Gly Leu Lys Thr
145   150   155   160

Val Phe Asp Glu Ala Ile Ile Ala Ile Leu Thr Pro Lys Lys His Thr
                165   170   175

Val Lys Lys Arg Ile Gly Ser Arg Cys Ile Asn Cys Cys Leu Ile Thr
            180   185   190

5380

<210> 6169
<211> 51
<212> PRT
<213> Homo sapiens

<400> 6169
Ala Lys Cys Arg Pro Val Cys Ser Cys Val Phe Phe Leu Trp Leu Pro
 1   5   10   15

His Leu Phe His Leu Gln Leu Asp Pro Pro Leu Gln Ile Glu Asn Ser
            20   25   30

Gly Gly Gly Trp Gly Leu Lys Ser Arg Glu Pro Pro Phe Cys Ser Thr
            35   40   45

Asn Phe Thr
    50

<210> 6170
<211> 353
<212> PRT
<213> Homo sapiens

<400> 6170
Arg Arg Arg Ser Val Leu Pro Val Thr Ala Ala Ala Ala Ala Ala Pro
 1   5   10   15

Asp Thr Cys Gly Gly Gly Gly Asp Pro Ala Ala Gly Ala Glu Met Trp
            20   25   30

Pro Leu Val Ala Ala Leu Leu Leu Gly Ser Ala Cys Cys Gly Ser Ala
            35   40   45

Gln Leu Leu Phe Asn Lys Thr Lys Ser Val Glu Phe Thr Phe Cys Asn
        50   55   60

Asp Thr Val Val Ile Pro Cys Phe Val Thr Asn Met Glu Ala Gln Asn
65   70   75   80

Thr Thr Glu Val Tyr Val Lys Trp Lys Phe Lys Gly Arg Asp Ile Tyr
                85   90   95

Thr Phe Asp Gly Ala Leu Asn Lys Ser Thr Val Pro Thr Asp Phe Ser
            100   105   110

Ser Ala Lys Ile Glu Val Ser Gln Leu Leu Lys Gly Asp Ala Ser Leu
            115   120   125

5381

```
Lys Met Asp Lys Ser Asp Ala Val Ser His Thr Gly Asn Tyr Thr Cys
    130             135             140
```

```
Glu Val Thr Glu Leu Thr Arg Glu Gly Glu Thr Ile Ile Glu Leu Lys
145             150             155             160
```

```
Tyr Arg Val Val Ser Trp Phe Ser Pro Asn Glu Asn Ile Leu Ile Val
                165             170             175
```

```
Ile Phe Pro Ile Phe Ala Ile Leu Leu Phe Trp Gly Gln Phe Gly Ile
            180             185             190
```

```
Lys Thr Leu Lys Tyr Arg Ser Gly Gly Met Asp Glu Lys Thr Ile Ala
        195             200             205
```

```
Leu Leu Val Ala Gly Leu Val Ile Thr Val Ile Val Ile Val Gly Ala
    210             215             220
```

```
Ile Leu Phe Val Pro Gly Glu Tyr Ser Leu Lys Asn Ala Thr Gly Leu
225             230             235             240
```

```
Gly Leu Ile Val Thr Ser Thr Gly Ile Leu Ile Leu Leu His Tyr Tyr
                245             250             255
```

```
Val Phe Ser Thr Ala Ile Gly Leu Thr Ser Phe Val Ile Ala Ile Leu
            260             265             270
```

```
Val Ile Gln Val Ile Ala Tyr Ile Leu Ala Val Val Gly Leu Ser Leu
        275             280             285
```

```
Cys Ile Ala Ala Cys Ile Pro Met His Gly Pro Leu Leu Ile Ser Gly
    290             295             300
```

```
Leu Ser Ile Leu Ala Leu Ala Gln Leu Leu Gly Leu Val Tyr Met Lys
305             310             315             320
```

```
Phe Val Ala Ser Asn Gln Lys Thr Ile Gln Pro Pro Arg Lys Ala Val
                325             330             335
```

```
Glu Glu Pro Leu Asn Ala Phe Lys Glu Ser Lys Gly Met Met Asn Asp
            340             345             350
```

```
Glu
```

```
<210> 6171
<211> 358
<212> PRT
<213> Homo sapiens
```

5382

<400> 6171
Arg Glu Gln Lys Leu Glu Leu His Arg Gly Gly Gly Arg Ser Arg Thr
  1   5   10   15

Ser Gly Ser Pro Gly Leu Gln Glu Phe Gly Thr Ser Gly Trp Ala Leu
                20   25   30

Arg Ile Ser Arg Phe Leu Pro Gly Phe His Ser Phe Ala Pro Cys Thr
          35   40   45

Val Ala Pro Ser Leu Arg Ala Gln Pro Ala Lys Gln Arg Ala Pro Val
      50   55   60

Ala Gly Val Met Gln Arg Ala Arg Pro Thr Leu Trp Ala Ala Ala Leu
  65   70   75   80

Thr Leu Leu Val Leu Leu Arg Gly Pro Pro Val Ala Arg Ala Gly Ala
                85   90   95

Ser Ser Ala Gly Leu Gly Pro Val Val Arg Cys Glu Pro Cys Asp Ala
              100   105   110

Arg Ala Leu Ala Gln Cys Ala Pro Pro Pro Ala Val Cys Ala Glu Leu
          115   120   125

Val Arg Glu Pro Gly Cys Gly Cys Cys Leu Thr Cys Ala Leu Ser Glu
      130   135   140

Gly Gln Pro Cys Gly Ile Tyr Thr Glu Arg Cys Gly Ser Gly Leu Arg
145   150   155   160

Cys Gln Pro Ser Pro Asp Glu Ala Arg Pro Leu Gln Ala Leu Leu Asp
              165   170   175

Gly Arg Gly Leu Cys Val Asn Ala Ser Ala Val Ser Arg Leu Arg Ala
              180   185   190

Tyr Leu Leu Pro Ala Pro Pro Ala Pro Gly Asn Ala Ser Glu Ser Glu
          195   200   205

Glu Asp Arg Ser Ala Gly Ser Val Glu Ser Pro Ser Val Ser Ser Thr
      210   215   220

His Arg Val Ser Asp Pro Lys Phe His Pro Leu His Ser Lys Ile Ile
225   230   235   240

Ile Ile Lys Lys Gly His Ala Lys Asp Ser Gln Arg Tyr Lys Val Asp
              245   250   255

Tyr Glu Ser Gln Ser Thr Asp Thr Gln Asn Phe Ser Ser Glu Ser Lys

5383

```
            260                 265                 270

Arg Glu Thr Glu Tyr Gly Pro Cys Arg Arg Glu Met Glu Asp Thr Leu
        275                 280                 285

Asn His Leu Lys Phe Leu Asn Val Leu Ser Pro Arg Gly Val His Ile
        290                 295                 300

Pro Asn Cys Asp Lys Lys Gly Phe Tyr Lys Lys Lys Gln Cys Arg Pro
305                 310                 315                 320

Ser Lys Gly Arg Lys Arg Gly Phe Cys Trp Cys Val Asp Lys Tyr Gly
                325                 330                 335

Gln Pro Leu Pro Gly Tyr Thr Thr Lys Gly Lys Glu Asp Val His Cys
            340                 345                 350

Tyr Ser Met Gln Ser Lys
        355
```

```
<210> 6172
<211> 140
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (93)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (101)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (104)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (126)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (134)
<223> Xaa equals any of the naturally occurring L-amino acids
```

<220>
<221> SITE
<222> (136)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (137)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6172
Gln Arg Ile Pro Asp Pro Ala Arg Glu Gly Ser Arg Thr Met Glu Ser
 1   5   10   15

Ser Ser Ser Ser Asn Ser Tyr Phe Ser Val Gly Pro Thr Ser Pro Ser
                20   25   30

Ala Val Val Leu Leu Tyr Ser Lys Glu Leu Lys Lys Trp Asp Glu Phe
            35   40   45

Glu Asp Ile Leu Glu Glu Arg Arg His Val Ser Asp Leu Lys Phe Ala
        50   55   60

Met Lys Cys Tyr Thr Pro Leu Val Tyr Lys Gly Ile Thr Pro Cys Lys
65   70   75   80

Pro Ile Asp Ile Lys Cys Ser Val Leu Asn Ser Glu Xaa Ile His Tyr
                85   90   95

Val Ile Lys Gln Xaa Ser Lys Xaa Ser Leu Gln Ser Val Gly Val Pro
                100   105   110

Pro Arg Lys Leu Val Gly Phe Arg Trp Asn Gly Ser Gln Xaa Gly Phe
            115   120   125

Gly Pro Phe Gly Leu Xaa Leu Xaa Xaa Ala Ser Phe
        130   135   140

<210> 6173
<211> 229
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (165)
<223> Xaa equals any of the naturally occurring L-amino acids

5385

<220>
<221> SITE
<222> (170)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6173

```
Val Pro Gly Ala Glu Gly Gly Gly Thr Gly Leu Asp Val Gly Arg Pro
 1               5                   10                  15

Ala Met Lys Pro Pro Ser Ser Ile Gln Thr Ser Glu Phe Asp Ser Ser
            20              25                  30

Asp Glu Glu Pro Ile Glu Asp Glu Gln Thr Pro Ile His Ile Ser Trp
            35              40                  45

Leu Ser Leu Ser Arg Val Asn Cys Ser Gln Phe Leu Gly Leu Cys Ala
    50              55                  60

Leu Pro Gly Cys Lys Phe Lys Asp Val Arg Arg Asn Val Gln Lys Asp
65              70                  75                      80

Thr Glu Glu Leu Lys Ser Cys Gly Ile Gln Asp Ile Phe Val Phe Cys
            85                  90                  95

Thr Arg Gly Glu Leu Ser Lys Tyr Arg Val Pro Asn Leu Leu Asp Leu
            100             105             110

Tyr Gln Gln Cys Gly Ile Ile Thr His His His Pro Ile Ala Asp Gly
    115             120             125

Gly Thr Pro Asp Ile Ala Ser Cys Cys Glu Ile Met Glu Glu Leu Thr
    130             135             140

Thr Cys Leu Lys Asn Tyr Arg Lys Thr Leu Ile His Cys Tyr Gly Gly
145             150             155             160

Leu Gly Arg Ser Xaa Leu Val Ala Ala Xaa Leu Leu Leu Tyr Leu Ser
            165             170             175

Asp Thr Ile Ser Pro Glu Gln Ala Ile Asp Ser Leu Arg Asp Leu Arg
            180             185             190

Gly Ser Gly Ala Ile Gln Thr Ile Lys Gln Tyr Asn Tyr Leu His Glu
    195             200             205

Phe Arg Asp Lys Leu Ala Ala His Leu Ser Ser Arg Asp Ser Gln Ser
    210             215             220

Arg Ser Val Ser Arg
225
```

```
<210> 6174
<211> 183
<212> PRT
<213> Homo sapiens

<400> 6174
Ser Arg Leu Ser Leu Ser Arg Val Asn Cys Ser Gln Phe Leu Gly Leu
 1               5                   10                  15

Cys Ala Leu Pro Gly Cys Lys Phe Lys Asp Val Arg Arg Asn Val Gln
                20                  25                  30

Lys Asp Thr Glu Glu Leu Lys Ser Cys Gly Ile Gln Asp Ile Phe Val
            35                  40                  45

Phe Cys Thr Arg Gly Glu Leu Ser Lys Tyr Arg Val Pro Asn Leu Leu
    50                  55                  60

Asp Leu Tyr Gln Gln Cys Gly Ile Ile Thr His His His Pro Ile Ala
65              70                  75                  80

Asp Gly Gly Thr Pro Asp Ile Ala Ser Cys Cys Glu Ile Met Glu Glu
                85                  90                  95

Leu Thr Thr Cys Leu Lys Asn Tyr Arg Lys Thr Leu Ile His Cys Tyr
                100                 105                 110

Gly Gly Leu Gly Arg Ser Cys Leu Val Ala Ala Cys Leu Leu Leu Tyr
            115                 120                 125

Leu Ser Asp Thr Ile Ser Pro Glu Gln Ala Ile Asp Ser Leu Arg Asp
            130                 135                 140

Leu Arg Gly Ser Gly Ala Ile Gln Thr Ile Lys Gln Tyr Asn Tyr Leu
145             150                 155                 160

His Glu Phe Arg Asp Lys Leu Ala Ala His Leu Ser Ser Arg Asp Ser
                165                 170                 175

Gln Ser Arg Ser Val Ser Arg
            180


<210> 6175
<211> 594
<212> PRT
<213> Homo sapiens
```

5387

```
<220>
<221> SITE
<222> (148)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6175
Arg Arg Arg Ala Ala Val Glu Glu Lys Arg Arg Gln Arg Leu Glu Glu
 1           5                   10                  15

Asp Lys Glu Arg His Glu Ala Val Val Arg Arg Thr Met Glu Arg Ser
            20                  25                  30

Gln Lys Pro Lys Gln Lys His Asn Arg Trp Ser Trp Gly Gly Ser Leu
            35                  40                  45

His Gly Ser Pro Ser Ile His Ser Ala Ala Arg Arg Leu Gln Leu Ser
        50                  55                  60

Pro Trp Glu Ser Ser Val Val Asn Arg Leu Leu Thr Pro Thr His Ser
65                      70                  75                  80

Phe Leu Ala Arg Ser Lys Ser Thr Ala Ala Leu Ser Gly Glu Ala Ala
                85                  90                  95

Ser Cys Ser Pro Ile Ile Met Pro Tyr Lys Ala Ala His Ser Arg Asn
            100                 105                 110

Ser Met Asp Arg Pro Lys Leu Phe Val Thr Pro Pro Glu Gly Ser Ser
            115                 120                 125

Arg Arg Arg Ile Ile His Gly Thr Ala Ser Tyr Lys Lys Glu Arg Glu
        130                 135                 140

Arg Glu Asn Xaa Leu Phe Leu Thr Ser Gly Thr Arg Arg Ala Val Ser
145             150                 155                 160

Pro Ser Asn Pro Lys Ala Arg Gln Pro Ala Arg Ser Arg Leu Trp Leu
                165                 170                 175

Pro Ser Lys Ser Leu Pro His Leu Pro Gly Thr Pro Arg Pro Thr Ser
            180                 185                 190

Ser Leu Pro Pro Gly Ser Val Lys Ala Ala Pro Ala Gln Val Arg Pro
            195                 200                 205

Pro Ser Pro Gly Asn Ile Arg Pro Val Lys Arg Glu Val Lys Val Glu
    210                 215                 220

Pro Glu Lys Lys Asp Pro Glu Lys Glu Pro Gln Lys Val Ala Asn Glu
225                 230                 235                 240
```

5388

Pro Ser Leu Lys Gly Arg Ala Pro Leu Val Lys Val Glu Glu Ala Thr
          245   250   255

Val Glu Glu Arg Thr Pro Ala Glu Pro Glu Val Gly Pro Ala Ala Pro
          260   265   270

Ala Met Ala Pro Ala Pro Ala Ser Ala Pro Ala Pro Ala Ser Ala Pro
          275   280   285

Ala Pro Ala Pro Val Pro Thr Pro Ala Met Val Ser Ala Pro Ser Ser
    290   295   300

Thr Val Asn Ala Ser Ala Ser Val Lys Thr Ser Ala Gly Thr Thr Asp
305   310   315   320

Pro Glu Glu Ala Thr Arg Leu Leu Ala Glu Lys Arg Arg Leu Ala Arg
          325   330   335

Glu Gln Arg Glu Lys Glu Glu Arg Glu Arg Arg Glu Gln Glu Glu Leu
          340   345   350

Glu Arg Gln Lys Arg Glu Glu Leu Ala Gln Arg Val Ala Glu Glu Arg
          355   360   365

Thr Thr Arg Arg Glu Glu Glu Ser Arg Arg Leu Glu Ala Glu Gln Ala
    370   375   380

Arg Glu Lys Glu Glu Gln Leu Gln Arg Gln Ala Glu Glu Arg Ala Leu
385   390   395   400

Arg Glu Trp Glu Glu Ala Glu Arg Ala Gln Arg Gln Lys Glu Glu Glu
          405   410   415

Ala Arg Val Arg Glu Glu Ala Glu Arg Val Arg Gln Glu Arg Glu Lys
          420   425   430

His Phe Gln Arg Glu Glu Gln Glu Arg Leu Glu Arg Lys Lys Arg Leu
          435   440   445

Glu Glu Ile Met Lys Arg Thr Arg Arg Thr Glu Ala Thr Asp Lys Lys
          450   455   460

Thr Ser Asp Gln Arg Asn Gly Asp Ile Ala Lys Gly Ala Leu Thr Gly
465   470   475   480

Gly Thr Glu Val Ser Ala Leu Pro Cys Thr Thr Asn Ala Pro Gly Asn
          485   490   495

Gly Lys Pro Val Gly Ser Pro His Val Val Thr Ser His Gln Ser Lys
          500   505   510

5389

```
Val Thr Val Glu Ser Thr Pro Asp Leu Glu Lys Gln Pro Asn Glu Asn
        515             520             525

Gly Val Ser Val Gln Asn Glu Asn Phe Glu Glu Ile Ile Asn Leu Pro
        530             535             540

Ile Gly Ser Lys Pro Ser Arg Leu Asp Val Thr Asn Ser Glu Ser Pro
545             550             555             560

Glu Ile Pro Leu Asn Pro Ile Leu Ala Phe Asp Asp Glu Gly Thr Leu
            565             570             575

Gly Pro Leu Pro Gln Val Asp Gly Val Gln Thr Gln Gln Thr Ala Glu
            580             585             590

Val Ile
```

```
<210> 6176
<211> 293
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (270)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (280)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6176
Asn Thr Cys Glu Ser Asn His Gly Leu Gly Thr Thr Pro Pro Glu Asn
  1             5             10             15

Gly Leu Ser Glu His Pro Cys Glu Thr Glu Gln Ile Asn Ala Lys Arg
            20             25             30

Lys Asp Thr Thr Ser Asp Lys Asp Asp Ser Leu Gly Ser Gln Gln Thr
            35             40             45

Asn Glu Gln Cys Ala Gln Lys Ala Glu Pro Thr Glu Ser Cys Glu Gln
        50             55             60

Ile Ala Val Gln Val Asn Asn Gly Asp Ala Gly Arg Glu Met Pro Cys
 65             70             75             80
```

5390

```
Pro Leu Pro Cys Asp Glu Glu Ser Pro Glu Ala Glu Leu His Asn His
              85                  90                  95

Gly Ile Gln Ile Asn Ser Cys Ser Val Arg Leu Val Asp Ile Lys Lys
             100             105             110

Glu Lys Pro Phe Ser Asn Ser Lys Val Glu Cys Gln Ala Gln Ala Arg
            115             120             125

Thr His His Asn Gln Ala Ser Asp Ile Ile Val Ile Ser Ser Glu Asp
    130             135             140

Ser Glu Gly Ser Thr Asp Val Asp Glu Pro Leu Glu Val Phe Ile Ser
145             150             155             160

Ala Pro Arg Ser Glu Pro Val Ile Asn Asn Asp Asn Pro Leu Glu Ser
             165             170             175

Asn Asp Glu Lys Glu Gly Gln Glu Ala Thr Cys Ser Arg Pro Gln Ile
            180             185             190

Val Pro Glu Pro Met Asp Phe Arg Lys Leu Ser Thr Phe Arg Glu Ser
            195             200             205

Phe Lys Lys Arg Val Ile Gly Gln Asp His Asp Phe Ser Glu Ser Ser
    210             215             220

Glu Glu Glu Ala Pro Ala Glu Ala Ser Ser Gly Ala Leu Arg Ser Lys
225             230             235             240

His Gly Glu Lys Ala Pro Met Thr Ser Arg Ser Thr Ser Thr Trp Arg
            245             250             255

Ile Pro Ser Arg Lys Arg Arg Phe Ser Ser Ser Asp Phe Xaa Asp Leu
            260             265             270

Ser Asn Lys Cys Leu Tyr Leu Xaa Gln Lys Leu His Ser Leu Phe Ile
    275             280             285

Leu Lys Asp Ile Thr
    290
```

```
<210> 6177
<211> 720
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
```

5391

```
<222> (693)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6177
Asp Thr Gly Pro Thr Gly Ile Lys Tyr Asp Leu Asp Arg His Gln Tyr
  1           5               10              15

Asn Tyr Val Asp Ala Val Cys Tyr Glu Asn Arg Leu His Trp Phe Ala
            20              25              30

Lys Tyr Phe Pro Tyr Leu Val Leu Leu His Thr Leu Ile Phe Leu Ala
            35              40              45

Cys Ser Asn Phe Trp Phe Lys Phe Pro Arg Thr Ser Ser Lys Leu Glu
    50              55              60

His Phe Val Ser Ile Leu Leu Lys Cys Phe Asp Ser Pro Trp Thr Thr
65                  70              75              80

Arg Ala Leu Ser Glu Thr Val Val Glu Glu Ser Asp Pro Lys Pro Ala
                85              90              95

Phe Ser Lys Met Asn Gly Ser Met Asp Lys Lys Ser Ser Thr Val Ser
            100             105             110

Glu Asp Val Glu Ala Thr Val Pro Met Leu Gln Arg Thr Lys Ser Arg
            115             120             125

Ile Glu Gln Gly Ile Val Asp Arg Ser Glu Thr Gly Val Leu Asp Lys
    130             135             140

Lys Glu Gly Glu Gln Ala Lys Ala Leu Phe Glu Lys Val Lys Lys Phe
145             150             155             160

Arg Thr His Val Glu Glu Gly Asp Ile Val Tyr Arg Leu Tyr Met Arg
                165             170             175

Gln Thr Ile Ile Lys Val Ile Lys Phe Ile Leu Ile Ile Cys Tyr Thr
            180             185             190

Val Tyr Tyr Val His Asn Ile Lys Phe Asp Val Asp Cys Thr Val Asp
            195             200             205

Ile Glu Ser Leu Thr Gly Tyr Arg Thr Tyr Arg Cys Ala His Pro Leu
    210             215             220

Ala Thr Leu Phe Lys Ile Leu Ala Ser Phe Tyr Ile Ser Leu Val Ile
225             230             235             240

Phe Tyr Gly Leu Ile Cys Met Tyr Thr Leu Trp Trp Met Leu Arg Arg
                245             250             255
```

5392

```
Ser Leu Lys Lys Tyr Ser Phe Glu Ser Ile Arg Glu Glu Ser Ser Tyr
        260             265             270

Ser Asp Ile Pro Asp Val Lys Asn Asp Phe Ala Phe Met Leu His Leu
        275             280             285

Ile Asp Gln Tyr Asp Pro Leu Tyr Ser Lys Arg Phe Ala Val Phe Leu
    290             295             300

Ser Glu Val Ser Glu Asn Lys Leu Arg Gln Leu Asn Leu Asn Asn Glu
305             310             315             320

Trp Thr Leu Asp Lys Leu Arg Gln Arg Leu Thr Lys Asn Ala Gln Asp
            325             330             335

Lys Leu Glu Leu His Leu Phe Met Leu Ser Gly Ile Pro Asp Thr Val
        340             345             350

Phe Asp Leu Val Glu Leu Glu Val Leu Lys Leu Glu Leu Ile Pro Asp
        355             360             365

Val Thr Ile Pro Pro Ser Ile Ala Gln Leu Thr Gly Leu Lys Glu Leu
    370             375             380

Trp Leu Tyr His Thr Ala Ala Lys Ile Glu Ala Pro Ala Leu Ala Phe
385             390             395             400

Leu Arg Glu Asn Leu Arg Ala Leu His Ile Lys Phe Thr Asp Ile Lys
            405             410             415

Glu Ile Pro Leu Trp Ile Tyr Ser Leu Lys Thr Leu Glu Glu Leu His
        420             425             430

Leu Thr Gly Asn Leu Ser Ala Glu Asn Asn Arg Tyr Ile Val Ile Asp
        435             440             445

Gly Leu Arg Glu Leu Lys Arg Leu Lys Val Leu Arg Leu Lys Ser Asn
    450             455             460

Leu Ser Lys Leu Pro Gln Val Val Thr Asp Val Gly Val His Leu Gln
465             470             475             480

Lys Leu Ser Ile Asn Asn Glu Gly Thr Lys Leu Ile Val Leu Asn Ser
            485             490             495

Leu Lys Lys Met Ala Asn Leu Thr Glu Leu Glu Leu Ile Arg Cys Asp
        500             505             510

Leu Glu Arg Ile Pro His Ser Ile Phe Ser Leu His Asn Leu Gln Glu
        515             520             525
```

5393

```
Ile Asp Leu Lys Asp Asn Asn Leu Lys Thr Ile Glu Glu Ile Ile Ser
    530             535             540

Phe Gln His Leu His Arg Leu Thr Cys Leu Lys Leu Trp Tyr Asn His
545             550             555             560

Ile Ala Tyr Ile Pro Ile Gln Ile Gly Asn Leu Thr Asn Leu Glu Arg
            565             570             575

Leu Tyr Leu Asn Arg Asn Lys Ile Glu Lys Ile Pro Thr Gln Leu Phe
        580             585             590

Tyr Cys Arg Lys Leu Arg Tyr Leu Asp Leu Ser His Asn Asn Leu Thr
    595             600             605

Phe Leu Pro Ala Asp Ile Gly Leu Leu Gln Asn Leu Gln Asn Leu Ala
    610             615             620

Ile Thr Ala Asn Arg Ile Glu Thr Leu Pro Pro Glu Leu Phe Gln Cys
625             630             635             640

Arg Lys Leu Arg Ala Leu His Leu Gly Asn Asn Val Leu Gln Ser Leu
            645             650             655

Pro Ser Arg Val Gly Glu Leu Thr Asn Leu Thr Gln Ile Glu Leu Arg
            660             665             670

Gly Asn Arg Leu Glu Cys Leu Pro Val Glu Leu Gly Glu Cys Pro Leu
        675             680             685

Leu Lys Arg Ser Xaa Leu Val Val Glu Glu Asp Leu Phe Asn Thr Leu
    690             695             700

Pro Pro Glu Val Lys Glu Arg Leu Trp Arg Ala Asp Lys Glu Gln Ala
705             710             715             720
```

```
<210> 6178
<211> 27
<212> PRT
<213> Homo sapiens

<400> 6178
Val Ser Gly Asp Tyr Gly His Pro Val Tyr Ile Val Gln Asp Gly Pro
1               5               10              15
```

5394

```
Pro Gln Ser Pro Pro Asn Ile Tyr Tyr Lys Val
            20              25
```

<210> 6179
<211> 154
<212> PRT
<213> Homo sapiens

<400> 6179
```
Asp Leu Cys Arg Leu Ser Cys Gly Arg Lys Met Pro Lys Val Lys Arg
 1               5              10              15

Ser Arg Lys Ala Pro Pro Asp Gly Trp Glu Leu Ile Glu Pro Thr Leu
            20              25              30

Asp Glu Leu Asp Gln Lys Met Arg Glu Ala Glu Thr Glu Pro His Glu
            35              40              45

Gly Lys Arg Lys Val Glu Ser Leu Trp Pro Ile Phe Arg Ile His His
        50              55              60

Gln Lys Thr Arg Tyr Ile Phe Asp Leu Phe Tyr Lys Arg Lys Ala Ile
65              70              75              80

Ser Arg Glu Leu Tyr Glu Tyr Cys Ile Lys Glu Gly Tyr Ala Asp Lys
                85              90              95

Asn Leu Ile Ala Lys Trp Lys Lys Gln Gly Tyr Glu Asn Leu Cys Cys
            100             105             110

Leu Arg Cys Ile Gln Thr Arg Asp Thr Asn Phe Gly Thr Asn Cys Ile
        115             120             125

Cys Arg Val Pro Lys Ser Lys Leu Glu Val Gly Arg Ile Ile Glu Cys
        130             135             140

Thr His Cys Gly Cys Arg Gly Cys Ser Gly
145             150
```

<210> 6180
<211> 442
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (22)

5395

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6180
Leu Gln Gln Glu Leu Gly Asp Gly Trp Gly His Ser Asp Leu His Lys
 1   5   10   15

Ala Leu Leu Cys Arg Xaa Pro Pro Leu Pro Glu Pro Asp Ala Met Ser
             20   25   30

Ser Lys Gly Ser Val Val Leu Ala Tyr Ser Gly Gly Leu Asp Thr Ser
         35   40   45

Cys Ile Leu Val Trp Leu Lys Glu Gln Gly Tyr Asp Val Ile Ala Tyr
     50   55   60

Leu Ala Asn Ile Gly Gln Lys Glu Asp Phe Glu Glu Ala Arg Lys Lys
65   70   75   80

Ala Leu Lys Leu Gly Ala Lys Lys Val Phe Ile Glu Asp Val Ser Arg
             85   90   95

Glu Phe Val Glu Glu Phe Ile Trp Pro Ala Ile Gln Ser Ser Ala Leu
         100   105   110

Tyr Glu Asp Arg Tyr Leu Leu Gly Thr Ser Leu Ala Arg Pro Cys Ile
         115   120   125

Ala Arg Lys Gln Val Glu Ile Ala Gln Arg Glu Gly Ala Lys Tyr Val
     130   135   140

Ser His Gly Ala Thr Gly Lys Gly Asn Asp Gln Val Arg Phe Glu Leu
145   150   155   160

Ser Cys Tyr Ser Leu Ala Pro Gln Ile Lys Val Ile Ala Pro Trp Arg
             165   170   175

Met Pro Glu Phe Tyr Asn Arg Phe Lys Gly Arg Asn Asp Leu Met Glu
             180   185   190

Tyr Ala Lys Gln His Gly Ile Pro Ile Pro Val Thr Pro Lys Asn Pro
         195   200   205

Trp Ser Met Asp Glu Asn Leu Met His Ile Ser Tyr Glu Ala Gly Ile
210   215   220

Leu Glu Asn Pro Lys Asn Gln Ala Pro Pro Gly Leu Tyr Thr Lys Thr
225   230   235   240

Gln Asp Pro Ala Lys Ala Pro Asn Thr Pro Asp Ile Leu Glu Ile Glu
             245   250   255

5396

```
Phe Lys Lys Gly Val Pro Val Lys Val Thr Asn Val Lys Asp Gly Thr
             260                 265                 270

Thr His Gln Thr Ser Leu Glu Leu Phe Met Tyr Leu Asn Glu Val Ala
         275                 280                 285

Gly Lys His Gly Val Gly Arg Ile Asp Ile Val Glu Asn Arg Phe Ile
    290                 295                 300

Gly Met Lys Ser Arg Gly Ile Tyr Glu Thr Pro Ala Gly Thr Ile Leu
305                 310                 315                 320

Tyr His Ala His Leu Asp Ile Glu Ala Phe Thr Met Asp Arg Glu Val
             325                 330                 335

Arg Lys Ile Lys Gln Gly Leu Gly Leu Lys Phe Ala Glu Leu Val Tyr
             340                 345                 350

Thr Gly Phe Trp His Ser Pro Glu Cys Glu Phe Val Arg His Cys Ile
         355                 360                 365

Ala Lys Ser Gln Glu Arg Val Glu Gly Lys Val Gln Val Ser Val Leu
    370                 375                 380

Lys Gly Gln Val Tyr Ile Leu Gly Arg Glu Ser Pro Leu Ser Leu Tyr
385                 390                 395                 400

Asn Glu Glu Leu Val Ser Met Asn Val Gln Gly Asp Tyr Glu Pro Thr
             405                 410                 415

Asp Ala Thr Gly Phe Ile Asn Ile Asn Ser Leu Arg Leu Lys Glu Tyr
             420                 425                 430

His Arg Leu Gln Ser Lys Val Thr Ala Lys
         435                 440
```

```
<210> 6181
<211> 155
<212> PRT
<213> Homo sapiens

<400> 6181
Asp Ser Tyr Phe Asp Arg Ile Cys Ser His Ser Ser Cys Lys Leu Gln
 1               5                  10                 15

Met Tyr Lys Leu His Leu Tyr Phe Tyr Arg Val Val Met Phe Tyr Met
         20                 25                 30

Cys Met Val Gln Glu Lys Ile Gly Ser Asn Gln Ser Ala Val Asp Val
```

5397

```
            35                    40                    45
Pro Lys Cys Lys His Arg His Thr His Ala His Thr His Lys His Thr
     50                    55                    60

His Ser Ala Leu Arg Lys Gly Gln Val Ile Ser His Pro Asn Phe Thr
 65                    70                    75                    80

Ser Thr Asp Pro Leu Ala Pro Thr Pro Ala Ser Thr Val Thr Ser Lys
                 85                    90                    95

Ala Arg Ala Thr Cys Ala His Gln Thr Cys Ile Lys Gln Leu Ala Gly
                100                   105                   110

Asp Gly Cys Gly Ala Gly Gly Leu Ser Asp Gly Ser Leu Leu Leu Pro
             115                   120                   125

Leu Leu Arg Val Lys Leu Leu Ser Phe Leu Arg Val Tyr Leu Cys Gln
     130                   135                   140

Val Cys Ala Phe Asn Cys Phe Tyr Phe Val Phe
145                   150                   155
```

<210> 6182
<211> 401
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (309)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (311)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (377)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6182
```
Asn Ile Lys Lys Arg Asp Glu Glu Leu Thr Glu Lys Met Lys Lys Ala
 1                 5                    10                    15

Glu Glu Glu Tyr Lys Leu Glu Lys Glu Glu Glu Ile Ser Asn Leu Lys
                20                    25                    30
```

5398

```
Ala Ala Phe Glu Lys Asn Ile Asn Thr Glu Arg Thr Leu Lys Thr Gln
        35              40                  45

Ala Val Asn Lys Leu Ala Glu Ile Met Asn Arg Lys Asp Phe Lys Ile
        50              55                  60

Asp Arg Lys Lys Ala Asn Thr Gln Asp Leu Arg Lys Lys Glu Lys Glu
65              70              75                  80

Asn Arg Lys Leu Gln Leu Glu Leu Asn Gln Glu Arg Glu Lys Phe Asn
                85              90              95

Gln Met Val Val Lys His Gln Lys Glu Leu Asn Asp Met Gln Ala Gln
            100             105             110

Leu Val Glu Glu Cys Ala His Arg Asn Glu Leu Gln Met Gln Leu Ala
        115             120             125

Ser Lys Glu Ser Asp Ile Glu Gln Leu Arg Ala Lys Leu Leu Asp Leu
    130             135             140

Ser Asp Ser Thr Ser Val Ala Ser Phe Pro Ser Ala Asp Glu Thr Asp
145             150             155             160

Gly Asn Leu Pro Glu Ser Arg Ile Glu Gly Trp Leu Ser Val Pro Asn
                165             170             175

Arg Gly Asn Ile Lys Arg Tyr Gly Trp Lys Lys Gln Tyr Val Val Val
            180             185             190

Ser Ser Lys Lys Ile Leu Phe Tyr Asn Asp Glu Gln Asp Lys Glu Gln
        195             200             205

Ser Asn Pro Ser Met Val Leu Asp Ile Asp Lys Leu Phe His Val Arg
    210             215             220

Pro Val Thr Gln Gly Asp Val Tyr Arg Ala Glu Thr Glu Glu Ile Pro
225             230             235             240

Lys Ile Phe Gln Ile Leu Tyr Ala Asn Glu Gly Glu Cys Arg Lys Asp
            245             250             255

Val Glu Met Glu Pro Val Gln Gln Ala Glu Lys Thr Asn Phe Gln Asn
        260             265             270

His Lys Gly His Glu Phe Ile Pro Thr Leu Tyr His Phe Pro Ala Asn
        275             280             285

Cys Asp Ala Cys Ala Lys Pro Leu Trp His Val Phe Lys Pro Pro Pro
290             295             300
```

5399

```
Ala Leu Glu Cys Xaa Arg Xaa His Val Lys Cys His Arg Asp His Leu
305             310             315                     320

Asp Lys Lys Glu Asp Leu Ile Cys Pro Cys Lys Val Ser Tyr Asp Val
                325             330                 335

Thr Ser Ala Arg Asp Met Leu Leu Leu Ala Cys Ser Gln Asp Glu Gln
            340             345                 350

Lys Lys Trp Val Thr His Leu Val Lys Lys Ile Pro Lys Asn Pro Pro
            355             360             365

Ser Gly Phe Val Arg Ala Ser Pro Xaa Thr Leu Ser Thr Arg Ser Thr
    370             375             380

Ala Asn Gln Ser Phe Arg Lys Val Val Lys Asn Thr Ser Gly Lys Thr
385             390             395                     400

Ser
```

```
<210> 6183
<211> 337
<212> PRT
<213> Homo sapiens

<400> 6183
Gln Ser Arg Ser Asp Ser Arg Val Asp Pro Arg Val Arg Gly Pro Pro
 1               5               10              15

Gly Pro Val Gly Pro Ser Gly Lys Glu Gly Asn Pro Gly Pro Leu Gly
            20              25              30

Pro Ile Gly Pro Pro Gly Val Arg Gly Ser Val Gly Glu Ala Gly Pro
            35              40              45

Glu Gly Pro Pro Gly Glu Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro
    50              55              60

Gly His Leu Thr Ala Ala Leu Gly Asp Ile Met Gly His Tyr Asp Glu
65              70              75              80

Ser Met Pro Asp Pro Leu Pro Glu Phe Thr Glu Asp Gln Ala Ala Pro
                85              90              95

Asp Asp Lys Asn Lys Thr Asp Pro Gly Val His Ala Thr Leu Lys Ser
            100             105             110
```

5400

```
Leu Ser Ser Gln Ile Glu Thr Met Arg Ser Pro Asp Gly Ser Lys Lys
        115             120             125
```

```
His Pro Ala Arg Thr Cys Asp Asp Leu Lys Leu Cys His Ser Ala Lys
    130             135             140
```

```
Gln Ser Gly Glu Tyr Trp Ile Asp Pro Asn Gln Gly Ser Val Glu Asp
145             150             155             160
```

```
Ala Ile Lys Val Tyr Cys Asn Met Glu Thr Gly Glu Thr Cys Ile Ser
            165             170             175
```

```
Ala Asn Pro Ser Ser Val Pro Arg Lys Thr Trp Trp Ala Ser Lys Ser
        180             185             190
```

```
Pro Asp Asn Lys Pro Val Trp Tyr Gly Leu Asp Met Asn Arg Gly Ser
        195             200             205
```

```
Gln Phe Ala Tyr Gly Asp His Gln Ser Pro Asn Thr Ala Ile Thr Gln
    210             215             220
```

```
Met Thr Phe Leu Arg Leu Leu Ser Lys Glu Ala Ser Gln Asn Ile Thr
225             230             235             240
```

```
Tyr Ile Cys Lys Asn Ser Val Gly Tyr Met Asp Asp Gln Ala Lys Asn
            245             250             255
```

```
Leu Lys Lys Ala Val Val Leu Lys Gly Ala Asn Asp Leu Asp Ile Lys
        260             265             270
```

```
Ala Glu Gly Asn Ile Arg Phe Arg Tyr Ile Val Leu Gln Asp Thr Cys
        275             280             285
```

```
Ser Lys Arg Asn Gly Asn Val Gly Lys Thr Val Phe Glu Tyr Arg Thr
    290             295             300
```

```
Gln Asn Val Ala Arg Leu Pro Ile Ile Asp Leu Ala Pro Val Asp Val
305             310             315             320
```

```
Gly Gly Thr Asp Gln Glu Phe Gly Val Glu Ile Gly Pro Val Cys Phe
            325             330             335
```

```
Val
```

```
<210> 6184
<211> 104
<212> PRT
<213> Homo sapiens
```

<400> 6184
```
Leu His Cys Phe Tyr Ser Gly Leu Gly Phe Arg Lys Thr Gly Thr Val
  1           5               10              15

Leu Ser Val His Arg Asn Thr Cys Gln Cys Gln Gly Phe Gln Ser Gly
             20              25              30

Val Tyr Pro Asn Trp Ser Gly Arg Glu Gly Gln Thr His Ser Gln Arg
         35              40              45

Pro Pro Cys Pro Arg Ser Asp Ser Ser Pro Leu Ala Ala Pro Thr Gly
     50              55              60

Ala Leu Gly Trp Ser Gly Ser Trp Gly Ser Val Pro Leu Ile Ala Gly
 65              70              75              80

Leu Cys Ser Pro Gly Phe Gly Ile Tyr Val Gly Thr Thr Pro Gly Leu
             85              90              95

Leu Ser Lys Gly Leu Trp Leu Leu
            100
```

<210> 6185
<211> 74
<212> PRT
<213> Homo sapiens

<400> 6185
```
Gly Leu Thr Trp Ala Phe Arg Tyr Arg Pro Ala Gly Ile Ile Val Met
  1           5               10              15

Ala Leu Leu Gly Met Phe Asn Val His Arg His Gly Ala Ile Asn Ser
             20              25              30

Ala Ala Ile Leu Leu Tyr Ala Leu Thr Cys Cys Ile Ser Gly Tyr Val
             35              40              45

Ser Ser His Phe Tyr Arg Gln Ile Gly Gly Glu Arg Trp Val Trp Glu
     50              55              60

His His Ser His His Gln Ser Leu Leu Trp
 65              70
```

<210> 6186
<211> 134
<212> PRT

5402

<210> Homo sapiens

<400> 6186
Thr Leu Leu Glu Ala Leu Thr Val Ala Val Val Val Thr Phe Tyr Asp
 1   5   10   15

Val Tyr Ile Ile Leu Gln Ala Phe Ile Leu Thr Thr Thr Val Phe Phe
              20   25   30

Gly Leu Thr Val Tyr Thr Leu Gln Ser Lys Lys Asp Phe Ser Lys Phe
          35   40   45

Gly Ala Gly Leu Phe Ala Leu Leu Trp Ile Leu Cys Leu Ser Gly Phe
      50   55   60

Leu Lys Phe Phe Phe Tyr Ser Glu Ile Met Glu Leu Val Leu Ala Ala
 65   70   75   80

Ala Gly Ala Leu Leu Phe Cys Gly Phe Ile Ile Tyr Asp Thr His Ser
                  85   90   95

Leu Met His Lys Leu Ser Pro Glu Glu Tyr Val Leu Ala Ala Ile Ser
                  100   105   110

Leu Tyr Leu Asp Ile Ile Asn Leu Phe Leu His Leu Leu Arg Phe Leu
          115   120   125

Glu Ala Val Asn Lys Lys
      130

<210> 6187
<211> 220
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6187
Asp Tyr Ala Xaa Thr Pro Gln Gly Leu Cys Tyr Asp Val Ala Cys Thr
 1   5   10   15

Arg Lys Leu Gly Pro Leu Glu Gly Ser Ser Arg Ala Ala Ala Ala Ala
              20   25   30

Phe Gly Glu Ser Ala Gly Gln Met Ser Asn Glu Arg Gly Phe Glu Asn
          35   40   45

5403

Val Glu Leu Gly Val Ile Gly Lys Lys Lys Val Pro Arg Arg Val
      50   55   60

Ile His Phe Val Ser Gly Glu Thr Met Glu Glu Tyr Ser Thr Asp Glu
 65   70   75   80

Asp Glu Val Asp Gly Leu Glu Lys Lys Asp Val Leu Pro Thr Val Asp
                85   90   95

Pro Thr Lys Leu Thr Trp Gly Pro Tyr Leu Trp Phe Tyr Met Leu Arg
            100   105   110

Ala Ala Thr Ser Thr Leu Ser Val Cys Asp Phe Leu Gly Glu Lys Ile
            115   120   125

Ala Ser Val Leu Gly Ile Ser Thr Pro Lys Tyr Gln Tyr Ala Ile Asp
      130   135   140

Glu Tyr Tyr Arg Met Lys Lys Glu Glu Glu Glu Glu Glu Glu Glu Asn
145   150   155   160

Arg Met Ser Glu Glu Ala Glu Lys Gln Tyr Gln Gln Asn Lys Leu Gln
            165   170   175

Thr Asp Ser Ile Val Gln Thr Asp Gln Pro Glu Thr Val Ile Ser Ser
            180   185   190

Ser Phe Val Asn Val Asn Phe Glu Met Glu Gly Asp Ser Glu Val Ile
            195   200   205

Met Glu Ser Lys Gln Asn Pro Val Ser Val Pro Pro
      210   215   220

<210> 6188
<211> 103
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

5404

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<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (65)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (100)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (101)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (103)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6188
Glu Arg Cys Gly Xaa Xaa Arg Glu Ala Gln Glu Gly Asp Leu Gln Gly
 1               5                  10                  15

Gln Glu Gly Ala Glu Ala Ser His Ala Gly Gly Pro Ala Ala Asp His
            20                  25                  30

Tyr Ser Gly Xaa Ala His Xaa Gly Arg Gly Arg Ala Leu Asp Arg Gly
         35                  40                  45

Val Cys Val Arg Gly His Ala Pro His His His Arg Val Ser Pro Ala
     50                  55                  60

Xaa Gly Arg Gly Pro His Arg Gln Gly Glu Glu Cys Ser Gly Gly Gly
 65                  70                  75                  80

Arg Lys Gln Lys Met Ala Phe Ile Phe Arg Asp Val His Val Ala Glu
                 85                  90                  95

Leu Leu Ser Xaa Xaa His Xaa
             100
```

5405

<210> 6189
<211> 166
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6189
Lys Phe Trp Leu Gln Lys Xaa His Phe Leu Cys Ala Asn Lys Asn Val
 1   5   10   15

Cys Ile Lys Tyr Asp Val Pro Pro Thr Trp Thr His Ser Val Pro His
            20   25   30

Lys Ala Lys Pro Thr Ala Ala Thr Ser Leu Gly Leu Arg Cys Ser
        35   40   45

Arg Cys Phe Phe Gln Asp Arg Asn Gln Asn Val Arg Asn Thr Ala Glu
    50   55   60

Arg Gly His Leu Glu Thr Lys Arg Arg Met Arg Ser Ser Ala Glu Val
65   70   75   80

Thr Gly Lys Ser Gln Asn Ser Asn Thr Leu Ala Gly Ala Trp Gly Val
                85   90   95

Lys Asn Arg Arg Arg Glu Glu Ala Phe Pro Ser Leu Gln Arg Arg Asn
            100   105   110

Gln Gly Gln Pro Lys Leu Pro Gly Ser Gln Asn Gln Phe Phe Tyr Gln
            115   120   125

Ala Val Pro Leu Leu Ser Phe Gln Leu Leu Ala Thr Gly Arg Cys Cys
            130   135   140

Ser Lys Gly Phe Ala Leu Arg Leu Gln Glu Glu Ala Ala Gly Arg Thr
145   150   155   160

Ala Gly Val Leu Gly Phe
                165

<210> 6190
<211> 90

5406

<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6190
Ser Leu Gln Val Glu Lys Pro Leu Tyr Pro Phe Asn Pro Leu Trp Pro
 1   5   10   15

Ser Phe Pro Xaa Xaa Val Asp Ala Thr Arg Glu Thr Asn Arg Leu Gly
                20   25   30

Arg Leu Ile Asn His Ser Lys Cys Gly Asn Cys Gln Thr Lys Leu His
            35   40   45

Asp Ile Asp Gly Val Pro His Leu Ile Leu Ile Ala Ser Arg Asp Ile
    50   55   60

Ala Ala Gly Glu Glu Leu Leu Tyr Asp Tyr Gly Asp Arg Ser Lys Ala
65   70   75   80

Ser Ile Glu Ala His Pro Trp Leu Lys His
                85   90

<210> 6191
<211> 162
<212> PRT
<213> Homo sapiens

<400> 6191
Tyr Lys Met Thr Glu Pro Gly Ala Ser Pro Glu Asp Pro Trp Val Lys
 1   5   10   15

Val Glu Tyr Ala Tyr Ser Asp Asn Ser Leu Asp Pro Gly Leu Phe Val
                20   25   30

Glu Ser Thr Arg Lys Gly Ser Val Val Ser Arg Ala Asn Ser Ile Gly
            35   40   45

Ser Thr Ser Ala Ser Ser Val Pro Asn Thr Asp Asp Glu Asp Ser Asp
    50   55   60

5407

```
Tyr His Gln Glu Ala Tyr Lys Glu Ser Tyr Lys Asp Arg Arg Arg Arg
65                  70          75              80

Ala His Thr Gln Ala Glu Gln Lys Arg Arg Asp Ala Ile Lys Arg Gly
                85              90              95

Tyr Asp Asp Leu Gln Thr Ile Val Pro Thr Cys Gln Gln Gln Asp Phe
            100             105             110

Ser Ile Gly Ser Gln Lys Leu Ser Lys Ala Ile Val Leu Gln Lys Thr
            115             120             125

Ile Asp Tyr Ile Gln Phe Leu His Lys Glu Lys Lys Lys Gln Glu Glu
        130             135             140

Glu Val Ser Arg Tyr Ala Arg Met Tyr Arg Pro Lys Asp His Glu Ser
145             150             155             160

Glu Leu
```

```
<210> 6192
<211> 350
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (126)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (135)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (141)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (143)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
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5408

<222> (145)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (148)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (150)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6192
Gly Thr Ser Gly Cys Trp Leu Leu Leu Val Leu Val Leu Val Leu Leu
  1   5   10   15

Val Ser Pro Arg Gly Cys Arg Ala Arg Arg Gly Leu Arg Gly Leu Leu
            20   25   30

Met Ala His Ser Gln Arg Leu Leu Phe Arg Ile Gly Tyr Ser Leu Tyr
          35   40   45

Thr Arg Thr Trp Leu Gly Tyr Leu Phe Tyr Arg Gln Gln Leu Arg Arg
      50   55   60

Ala Arg Asn Arg Tyr Pro Lys Gly His Ser Lys Thr Gln Pro Arg Leu
 65   70   75   80

Phe Asn Gly Val Lys Val Leu Pro Ile Pro Val Leu Ser Asp Asn Tyr
                85   90   95

Ser Tyr Leu Ile Ile Asp Thr Gln Ala Gln Leu Ala Val Ala Val Asp
            100   105   110

Pro Ser Asp Pro Arg Ala Val Gln Ala Ser Ile Glu Lys Xaa Gly Val
          115   120   125

Thr Leu Val Ala Ile Leu Xaa Thr His Lys His Trp Xaa His Xaa Gly
      130   135   140

Xaa Asn Arg Xaa Leu Xaa Arg Gly His Arg Asp Cys Arg Val Tyr Gly
145   150   155   160

Ser Pro Gln Asp Gly Ile Pro Tyr Leu Thr His Pro Leu Cys His Gln
              165   170   175

Asp Val Val Ser Val Gly Arg Leu Gln Ile Arg Ala Leu Ala Thr Pro
            180   185   190

Gly His Thr Gln Gly His Leu Val Tyr Leu Leu Asp Gly Glu Pro Tyr

5409

```
                195                    200                    205
Lys Gly Pro Ser Cys Leu Phe Ser Gly Asp Leu Leu Phe Leu Ser Gly
        210             215             220

Cys Gly Arg Thr Phe Glu Gly Asn Ala Glu Thr Met Leu Ser Ser Leu
225             230             235                         240

Asp Thr Val Leu Gly Leu Gly Asp Asp Thr Leu Leu Trp Pro Gly His
                245             250             255

Glu Tyr Ala Glu Glu Asn Leu Gly Phe Ala Gly Val Val Glu Pro Glu
                260             265             270

Asn Leu Ala Arg Glu Arg Lys Met Gln Trp Val Gln Arg Gln Arg Leu
        275             280             285

Glu Arg Lys Gly Thr Cys Pro Ser Thr Leu Gly Glu Glu Arg Ser Tyr
        290             295             300

Asn Pro Phe Leu Arg Thr His Cys Leu Ala Leu Gln Glu Ala Leu Gly
305             310             315             320

Pro Gly Pro Gly Pro Thr Gly Asp Asp Asp Tyr Ser Arg Ala Gln Leu
                325             330             335

Leu Glu Glu Leu Arg Arg Leu Lys Asp Met His Lys Ser Lys
                340             345             350
```

<210> 6193
<211> 200
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6193
```
Ile Ser Tyr Ser Arg Trp Lys Thr Leu His Thr Val Leu Pro Gln Xaa
1               5               10              15

Ile Arg Xaa Leu Leu Phe Cys Leu Leu Gln Lys Asp Pro Cys Pro Val
```

5410

```
                20                    25                    30

Ala Glu Arg Gly Asn Asp Lys Asp Phe Thr Leu Asn Asp Phe Gly Phe
         35                    40                    45

Met Ile Phe His Ser Pro Tyr Cys Lys Leu Val Gln Lys Ser Leu Ala
     50                    55                    60

Arg Met Leu Leu Asn Asp Phe Leu Asn Asp Gln Asn Arg Asp Lys Asn
 65                    70                    75                    80

Ser Ile Tyr Ser Gly Leu Glu Ala Phe Gly Asp Val Lys Leu Glu Asp
                 85                    90                    95

Thr Tyr Phe Asp Arg Asp Val Glu Lys Ala Phe Met Lys Ala Ser Ser
                 100                   105                   110

Glu Leu Phe Ser Gln Lys Thr Lys Ala Ser Leu Leu Val Ser Asn Gln
             115                   120                   125

Asn Gly Asn Met Tyr Thr Ser Ser Val Tyr Gly Ser Leu Ala Ser Val
     130                   135                   140

Leu Ala Gln Tyr Ser Pro Gln Gln Leu Ala Gly Lys Arg Ile Gly Val
145                   150                   155                   160

Phe Ser Tyr Gly Ser Gly Leu Ala Ala Thr Leu Tyr Ser Leu Lys Val
                 165                   170                   175

Thr Gln Asp Ala Thr Pro Gly Ser Ala Leu Asp Lys Ile Thr Ala Ser
             180                   185                   190

Leu Cys Asp Leu Lys Ser Lys Ala
             195                   200
```

```
<210> 6194
<211> 113
<212> PRT
<213> Homo sapiens

<400> 6194
Glu Glu Leu Arg Glu Ser Ala Ala Ala Gly Ser Ala Asp Ala Met Asp
 1                   5                     10                    15

Asn Val Gln Pro Lys Ile Lys His Arg Pro Phe Cys Phe Ser Val Lys
                 20                    25                    30

Gly His Val Lys Met Leu Arg Leu Asp Ile Ile Asn Ser Leu Val Thr
         35                    40                    45
```

5411

Thr Val Phe Met Leu Ile Val Ser Val Leu Ala Leu Ile Pro Glu Thr
    50   55   60

Thr Thr Leu Thr Val Gly Gly Gly Val Phe Ala Leu Val Thr Ala Val
65   70   75   80

Cys Cys Leu Ala Asp Gly Ala Leu Ile Tyr Arg Lys Leu Leu Phe Asn
                85   90   95

Pro Ser Gly Pro Tyr Gln Lys Lys Pro Val His Glu Lys Lys Glu Val
                100   105   110

Leu

<210> 6195
<211> 480
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (196)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (392)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6195
Ser Asp Lys Trp Pro Thr Ala Val Arg Ala Asn Gly His Leu Leu Leu
    1   5   10   15

Asn Ser Glu Lys Met Ser Lys Ser Thr Gly Asn Phe Leu Thr Leu Thr
                20   25   30

Gln Ala Ile Asp Lys Phe Ser Ala Asp Gly Met Arg Leu Ala Leu Ala
            35   40   45

Asp Ala Gly Asp Thr Val Glu Asp Ala Asn Phe Val Glu Ala Met Ala
    50   55   60

Asp Ala Gly Ile Leu Arg Leu Tyr Thr Trp Val Glu Trp Val Lys Glu
65   70   75   80

Met Val Ala Asn Trp Asp Ser Leu Arg Ser Gly Pro Ala Ser Thr Phe
                85   90   95

5412

Asn Asp Arg Val Phe Ala Ser Glu Leu Asn Ala Gly Ile Ile Lys Thr
        100   105   110

Asp Gln Asn Tyr Glu Lys Met Met Phe Lys Glu Ala Leu Lys Thr Gly
        115   120   125

Phe Phe Glu Phe Gln Ala Ala Lys Asp Lys Tyr Arg Glu Leu Ala Val
    130   135   140

Glu Gly Met His Arg Glu Leu Val Phe Arg Phe Ile Glu Val Gln Thr
145   150   155   160

Leu Leu Leu Ala Pro Phe Cys Pro His Leu Cys Glu His Ile Trp Thr
            165   170   175

Leu Leu Gly Lys Pro Asp Ser Ile Met Asn Ala Ser Trp Pro Val Ala
        180   185   190

Gly Pro Val Xaa Glu Val Leu Ile His Ser Ser Gln Tyr Leu Met Glu
        195   200   205

Val Thr His Asp Leu Arg Leu Arg Leu Lys Asn Tyr Met Met Pro Ala
    210   215   220

Lys Gly Lys Lys Thr Asp Lys Gln Pro Leu Gln Lys Pro Ser His Cys
225   230   235   240

Thr Ile Tyr Val Ala Lys Asn Tyr Pro Pro Trp Gln His Thr Thr Leu
            245   250   255

Ser Val Leu Arg Lys His Phe Glu Ala Asn Asn Gly Lys Leu Pro Asp
        260   265   270

Asn Lys Val Ile Ala Ser Glu Leu Gly Ser Met Pro Glu Leu Lys Lys
        275   280   285

Tyr Met Lys Lys Val Met Pro Phe Val Ala Met Ile Lys Glu Asn Leu
    290   295   300

Glu Lys Met Gly Pro Arg Ile Leu Asp Leu Gln Leu Glu Phe Asp Glu
305   310   315   320

Lys Ala Val Leu Met Glu Asn Ile Val Tyr Leu Thr Asn Ser Leu Glu
            325   330   335

Leu Glu His Ile Glu Val Lys Phe Ala Ser Glu Ala Glu Asp Lys Ile
            340   345   350

Arg Glu Asp Cys Cys Pro Gly Lys Pro Leu Asn Val Phe Arg Ile Glu
        355   360   365

5413

```
Pro Gly Val Ser Val Ser Leu Val Asn Pro Gln Pro Ser Asn Gly His
    370             375         380

Phe Ser Thr Lys Ile Glu Ile Xaa Gln Gly Asp Asn Cys Asp Ser Ile
385             390         395                     400

Ile Arg Arg Leu Met Lys Met Asn Arg Gly Ile Lys Asp Leu Ser Lys
            405             410             415

Val Lys Leu Met Arg Phe Asp Asp Pro Leu Leu Gly Pro Arg Arg Val
            420             425             430

Pro Val Leu Gly Lys Glu Tyr Thr Glu Lys Thr Pro Ile Ser Glu His
        435             440             445

Ala Val Phe Asn Val Asp Leu Met Ser Lys Lys Ile His Leu Thr Glu
    450             455             460

Asn Gly Ile Arg Val Asp Ile Gly Asp Thr Ile Ile Tyr Leu Val His
465             470             475             480
```

```
<210> 6196
<211> 110
<212> PRT
<213> Homo sapiens

<400> 6196
Met Lys Thr Arg Thr Ile Ser Phe Ala Arg Ile Pro Asn Leu Ala Arg
1           5           10              15

Pro Ala Ala Pro Ser Leu Arg Pro Asp Asp Val Phe Ile Ala Val Lys
            20          25              30

Thr Thr Arg Lys Asn His Gly Pro Arg Leu Arg Leu Leu Leu Arg Thr
            35          40              45

Trp Ile Ser Arg Ala Arg Gln Gln Thr Phe Ile Phe Thr Asp Gly Asp
    50              55              60

Asp Pro Glu Leu Glu Leu Gln Gly Gly Asp Arg Val Ile Asn Thr Asn
65              70              75              80

Cys Ser Ala Val Arg Thr Arg Gln Ala Leu Cys Cys Lys Met Ser Val
            85              90              95
```

5414

Glu Tyr Asp Lys Phe Ile Glu Ser Gly Arg Lys Trp Phe Cys
            100   105   110

<210> 6197
<211> 74
<212> PRT
<213> Homo sapiens

<400> 6197
Trp Leu Asn Ala Ala Lys Met Arg Ile Lys Gly Met Lys Trp Phe Asn
 1   5   10   15

Thr Leu Ser His Asn Arg Trp Leu Glu Gln Glu Thr Asp Arg Ile Phe
            20   25   30

Asp Phe Gly Lys Asn Ser Val Val Pro Thr Gly Phe Gly Trp Leu Gly
            35   40   45

Asn Lys Gly Gln Ile Lys Glu Glu Met Gly Thr His Leu Trp Ile Thr
    50   55   60

Ala Arg Met Leu His Val Tyr Ser Val Ala
65   70

<210> 6198
<211> 251
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6198
Leu Leu Pro Ala Gly Arg Lys Ala Arg Leu Ser Glu Ala Pro Gly Gly
 1   5   10   15

Lys Lys Ser Leu Ser Met Leu His Tyr Ile Arg Gly Ala Ala Pro Lys
            20   25   30

Asp Ile Pro Val Pro Leu Ser His Ser Thr Asn Gly Lys Ser Lys Pro
            35   40   45

Trp Glu Pro Phe Val Ala Glu Glu Phe Ala His Xaa Phe His Glu Ser
    50   55   60

5415

Val Leu Gln Ser Thr Gln Lys Ala Leu Gln Lys His Lys Gly Ser Val
65   70   75   80

Ala Val Leu Ser Ala Glu Gln Asn His Lys Val Asp Thr Ser Val His
                85   90   95

Tyr Asn Ile Pro Glu Leu Gln Ser Ser Ser Arg Ala Pro Pro Pro Gln
            100   105   110

His Asn Gly Gln Gln Glu Pro Pro Thr Ala Arg Lys Gly Pro Pro Thr
            115   120   125

Gln Glu Leu Asp Arg Asp Ser Glu Glu Glu Glu Glu Asp Asp Glu
    130   135   140

Asp Gly Glu Asp Glu Glu Glu Val Pro Lys Arg Lys Trp Gln Gly Ile
145   150   155   160

Glu Ala Val Phe Glu Ala Tyr Gln Glu His Ile Glu Glu Gln Asn Leu
            165   170   175

Glu Arg Gln Val Leu Gln Thr Gln Cys Arg Arg Leu Glu Ala Arg His
            180   185   190

Tyr Ser Leu Ser Leu Thr Ala Glu Gln Leu Ser His Ser Val Ala Glu
            195   200   205

Leu Arg Ser Gln Lys Gln Lys Met Val Ser Glu Arg Glu Arg Leu Gln
    210   215   220

Ala Glu Leu Asp His Leu Arg Lys Cys Leu Ala Leu Pro Ala Met His
225   230   235   240

Trp Pro Arg Gly Tyr Leu Lys Gly Tyr Pro Arg
            245   250

<210> 6199
<211> 115
<212> PRT
<213> Homo sapiens

<400> 6199
Glu Arg Val Ser Val Gly Gly Leu Val Gly Glu Val Ala Cys Ala Cys
  1   5   10   15

Arg Asp Cys Ile Pro Glu Thr Met Ala Glu Gly Asp Asn Arg Ser Thr
            20   25   30

Asn Leu Leu Ala Ala Glu Thr Ala Ser Leu Glu Glu Lys Pro Lys Met

5416

```
              35                   40                   45

Tyr Phe Met Thr Met Ile Val Ser Leu Ala Ala Val Ala Trp Val Gly
      50                   55                   60

Gln Gln Val His Asn Leu Leu Leu Thr Tyr Leu Ile Val Thr Ser Leu
  65                   70                   75                   80

Leu Leu Leu Pro Gly Leu Asn Gln His Gly Ile Ile Leu Lys Tyr Ile
                85                   90                   95

Gly Met Ala Lys Arg Glu Ile Asn Lys Leu Leu Lys Gln Lys Glu Lys
                100                   105                  110

Lys Asn Glu
      115
```

```
<210> 6200
<211> 63
<212> PRT
<213> Homo sapiens

<400> 6200
Leu Phe Val Ser Phe Ile Phe Thr Leu Lys Gln Glu Leu Ser Tyr Leu
  1               5                   10                   15

Ile Ile Lys Val Ser Tyr Val Leu Ser Ala Arg Thr Phe Leu Ala Phe
                20                   25                   30

Val Arg Met Cys Leu His Met Ser Ile Ile Asn Pro His Val Tyr Thr
                35                   40                   45

Ile Val Ser Tyr Val Leu Leu Pro Asp Ser Ser Leu Cys Ile Leu
      50                   55                   60
```

```
<210> 6201
<211> 141
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (107)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6201
Pro Leu Pro Ser Gln Gly Ala Arg Trp Trp Leu Trp His Ser Cys Arg
```

5417

```
    1                    5                   10                  15
Val Val Phe Phe Ser Leu Arg Trp Ser Leu Thr Leu Val Thr Pro Ala
            20                  25                  30

Gly Met Trp Trp Cys Lys Gln Leu Thr Ala Ala Leu Thr Leu Arg Leu
            35                  40                  45

Lys Arg Ser Phe Cys Leu Gly Leu Leu Ser Ser Trp Asp Pro Arg Arg
    50                  55                  60

Glu Ser Pro His Pro Val His Val Pro Ala Gly Leu Asp Met Arg Gly
65                  70                  75                  80

Arg Cys Val Phe Pro Ala Thr Phe Ser Ser Ser Phe Leu Arg Gln Thr
            85                  90                  95

Leu Ala Pro Ser Pro Arg Pro Glu Cys Gly Xaa Ala Asn Thr Ala His
            100                 105                 110

Cys Ser Leu Asp Pro Gln Ala Gln Ala Ile Leu Thr Pro Arg Thr Pro
            115                 120                 125

Lys Val Leu Gly Ser Gln Ala Arg Val Thr Met Leu Ala
    130                 135                 140
```

<210> 6202
<211> 231
<212> PRT
<213> Homo sapiens

<400> 6202

```
Ile Ala Gly Thr Ala Thr Ala Arg Trp Trp Pro Ser Trp Trp Cys Ser
    1                    5                   10                  15

Asn Val Arg His Leu Gly Leu Lys Ser Glu Glu Ile Cys Trp Thr Asn
            20                  25                  30

Ser Glu Thr Phe Ala Ala Trp Cys Ala Leu Ala Ser Gly Ser Ser Arg
            35                  40                  45

Arg Glu Gly Arg Cys Arg Gln Ala Arg Ser Pro Arg Ser Ser Ser Thr
    50                  55                  60

Ile Ser Arg Cys Thr Trp Glu Arg Thr Arg Ser Thr Pro Pro Gly Phe
65                  70                  75                  80

Thr Ala Trp Lys Thr Ser Ser Ala Arg Ser Ala Val Ser Thr Pro Ala
            85                  90                  95
```

5418

Ala Ala Cys Glu Cys Ser Arg Ser Ser Pro Thr Ser Trp Thr Thr Arg
          100   105   110

Ser Ser Arg Leu Gly Ala Ala Gly Pro Ser Ala Ser Pro Ala Pro Arg
          115   120   125

Ser Leu Pro Phe Pro Ala Pro Gly Leu Arg Ser Gln Arg Phe Ser Thr
          130   135   140

Ser Ala Pro Pro Arg His Ala Arg Pro Pro Pro Val Ala Arg Ala Arg
145   150   155   160

Ala Ala Pro Pro His Pro Gln Ala Ser Gly Arg Lys Ser Gln Glu Leu
                  165   170   175

Pro Gln Gly Arg Lys Gly Ala Ala Ala Ser Ala Trp Leu Thr Ala Thr
              180   185   190

Ala Val Val Thr Val Leu Gly Asp Pro Ala Cys Ala Phe Pro Leu Arg
          195   200   205

Cys Lys Pro Gly Thr Gly Lys Gly Leu Arg Gly Glu Arg Thr Trp Pro
          210   215   220

Ser Pro Arg Val His Gly Gln
225   230

<210> 6203
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (171)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (172)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (178)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

5419

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<221> SITE
<222> (188)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (189)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6203
Gly Asp Pro Thr Cys Arg Gln Asn Leu Arg Cys Gly Thr Pro Gly Thr
 1               5                  10                  15

Val Ala Ala Ala Gly Asp Cys Gly Leu Phe Ser Ala Met His Pro Leu
                20              25              30

Gln Cys Val Leu Gln Val Gln Arg Ser Leu Gly Trp Gly Pro Leu Ala
            35              40              45

Ser Val Ser Trp Leu Ser Leu Arg Met Cys Arg Ala His Ser Ser Leu
        50              55              60

Ser Ser Thr Met Cys Pro Ser Pro Glu Arg Gln Glu Asp Gly Ala Arg
65              70              75                  80

Lys Asp Phe Ser Ser Arg Leu Ala Ala Gly Pro Thr Phe Gln His Phe
            85              90              95

Leu Lys Ser Ala Ser Ala Pro Gln Glu Lys Leu Ser Ser Glu Val Glu
            100             105             110

Asp Pro Pro Pro Tyr Leu Met Met Asp Glu Leu Leu Gly Arg Gln Arg
        115             120             125

Lys Val Tyr Leu Glu Thr Tyr Gly Cys Gln Met Asn Val Asn Asp Thr
    130             135             140

Glu Ile Ala Trp Ser Ile Leu Gln Lys Ser Gly Tyr Leu Arg Thr Ser
145             150             155             160

Asn Leu Gln Glu Ala Asp Val Ile Leu Leu Xaa Xaa Ala Leu Ser Gly
            165             170             175

Arg Xaa Leu Ser Arg Pro Ser Gly Thr Val Thr Xaa Xaa Lys Ala
        180             185             190


<210> 6204
<211> 408
<212> PRT
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5420

<213> Homo sapiens

<400> 6204
Lys Ile Met Ala His Tyr Gly Ser Ile Gln Tyr Cys Phe His Thr Cys
1   5   10   15

Thr Leu Glu Thr Lys Phe Pro Ile Ile Pro Tyr Ile Pro Thr Leu Ile
            20   25   30

Thr Gln Leu Thr Gln Lys Leu Leu Ala Val Ser Lys Asn Pro Ser Lys
            35   40   45

Pro His Phe Asn His Tyr Met Phe Glu Ala Ile Cys Leu Ser Ile Arg
        50   55   60

Ile Thr Cys Lys Ala Asn Pro Ala Ala Val Val Asn Phe Glu Glu Ala
65   70   75   80

Leu Phe Leu Val Phe Thr Glu Ile Leu Gln Asn Asp Val Gln Glu Phe
                85   90   95

Ile Pro Tyr Val Phe Gln Val Met Ser Leu Leu Leu Glu Thr His Lys
            100   105   110

Asn Asp Ile Pro Ser Ser Tyr Met Ala Leu Phe Pro His Leu Leu Gln
        115   120   125

Pro Val Leu Trp Glu Arg Thr Gly Asn Ile Pro Ala Leu Val Arg Leu
    130   135   140

Leu Gln Ala Phe Leu Glu Arg Gly Ser Asn Thr Ile Ala Ser Ala Ala
145   150   155   160

Ala Asp Lys Ile Pro Gly Leu Leu Gly Val Phe Gln Lys Leu Ile Ala
            165   170   175

Ser Lys Ala Asn Asp His Gln Gly Phe Tyr Leu Leu Asn Ser Ile Ile
            180   185   190

Glu His Met Pro Pro Glu Ser Val Asp Gln Tyr Arg Lys Gln Ile Phe
        195   200   205

Ile Leu Leu Phe Gln Arg Leu Gln Asn Ser Lys Thr Thr Lys Phe Ile
    210   215   220

Lys Ser Phe Leu Val Phe Ile Asn Leu Tyr Cys Ile Lys Tyr Gly Ala
225   230   235   240

Leu Ala Leu Gln Glu Ile Phe Asp Gly Ile Gln Pro Lys Met Phe Gly
            245   250   255

5421

```
Met Val Leu Glu Lys Ile Ile Ile Pro Glu. Ile Gln Lys Val Ser Gly
         260             265             270

Asn Val Glu Lys Lys Ile Cys Ala Val Gly Ile Thr Lys Leu Leu Thr
         275             280             285

Glu Cys Pro Pro Met Met Asp Thr Glu Tyr Thr Lys Leu Trp Thr Pro
         290             295             300

Leu Leu Gln Ser Leu Ile Gly Leu Phe Glu Leu Pro Glu Asp Asp Thr
305             310             315             320

Ile Pro Asp Glu Glu His Phe Ile Asp Ile Glu Asp Thr Pro Gly Tyr
             325             330             335

Gln Thr Ala Phe Ser Gln Leu Ala Phe Ala Gly Lys Lys Glu His Asp
         340             345             350

Pro Val Gly Gln Met Val Asn Asn Pro Lys Ile His Leu Ala Gln Ser
         355             360             365

Leu His Lys Leu Ser Thr Ala Cys Pro Gly Arg Val Pro Ser Met Val
    370             375             380

Ser Thr Ser Leu Asn Ala Glu Ala Leu Gln Tyr Leu Gln Gly Tyr Leu
385             390             395             400

Gln Ala Ala Ser Val Thr Leu Leu
             405
```

```
<210> 6205
<211> 139
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (94)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (106)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (113)
<223> Xaa equals any of the naturally occurring L-amino acids
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5422

<400> 6205
Ala Ala Ala Ser Arg Arg Pro Cys Ala Gln Arg Ser Arg Thr Ser Pro
 1   5   10   15

Ala Ala Ala Ser Cys Arg Ser Ala Phe Gly Val Arg Arg Ala Gln Pro
             20   25   30

Ala Ser Glu Leu Arg Gly Pro Gly Arg Val Ala Arg Met Ala Trp Ala
         35   40   45

Gly Ser Arg Arg Val Pro Ala Gly Thr Arg Ala Ala Ala Glu Arg Cys
     50   55   60

Cys Arg Leu Ser Leu Ser Pro Gly Ala Gln Pro Ala Arg Pro Arg Pro
 65   70   75   80

Ser Ala Pro Pro Arg Pro Met Arg Phe Leu Thr Ser Cys Xaa Leu Leu
             85   90   95

Leu Pro Arg Ala Ala Gln Ile Leu Ala Xaa Glu Ala Gly Leu Pro Ser
             100   105   110

Xaa Arg Ser Phe Met Gly Phe Ala Ala Pro Phe Thr Asn Lys Arg Lys
             115   120   125

Ala Tyr Ser Glu Arg Arg Ile Met Gly Tyr Ser
     130   135

<210> 6206
<211> 275
<212> PRT
<213> Homo sapiens

<400> 6206
Gly Gly Ala Ser Asn Phe Leu Ser Trp Arg Glu Ser Ala Arg Trp Ser
 1   5   10   15

Arg Gln Leu Arg Arg Thr Leu Ile Arg Leu Ser Phe Pro Ile Ser Cys
             20   25   30

Gly Arg Ser His Ala Phe Gly Gly Cys Lys Met Ala Ala Thr Ser Gly
         35   40   45

Thr Asp Glu Pro Val Ser Gly Glu Leu Val Ser Val Ala His Ala Leu
     50   55   60

Ser Leu Pro Ala Glu Ser Tyr Gly Asn Asp Pro Asp Ile Glu Met Ala
 65   70   75   80

5423

```
Trp Ala Met Arg Ala Met Gln His Ala Glu Val Tyr Tyr Lys Leu Ile
              85              90              95

Ser Ser Val Asp Pro Gln Phe Leu Lys Leu Thr Lys Val Asp Asp Gln
             100             105             110

Ile Tyr Ser Glu Phe Arg Lys Asn Phe Glu Thr Leu Arg Ile Asp Val
             115             120             125

Leu Asp Pro Glu Glu Leu Lys Ser Glu Ser Ala Lys Glu Lys Trp Arg
    130             135             140

Pro Phe Cys Leu Lys Phe Asn Gly Ile Val Glu Asp Phe Asn Tyr Gly
145             150             155             160

Thr Leu Leu Arg Leu Asp Cys Ser Gln Gly Tyr Thr Glu Glu Asn Thr
             165             170             175

Ile Phe Ala Pro Arg Ile Gln Phe Phe Ala Ile Glu Ile Ala Arg Asn
             180             185             190

Arg Glu Gly Tyr Asn Lys Ala Val Tyr Ile Ser Val Gln Asp Lys Glu
             195             200             205

Gly Glu Lys Gly Val Asn Asn Gly Gly Glu Lys Arg Ala Asp Ser Gly
    210             215             220

Glu Glu Glu Asn Thr Lys Asn Gly Gly Glu Lys Gly Ala Asp Ser Gly
225             230             235             240

Glu Glu Lys Glu Glu Gly Ile Asn Arg Glu Asp Lys Thr Asp Lys Gly
             245             250             255

Gly Glu Lys Gly Lys Glu Ala Asp Lys Glu Ile Asn Lys Ser Gly Glu
    260             265             270

Lys Ala Met
    275
```

```
<210> 6207
<211> 87
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (50)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (56)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6207
Lys Met Leu Xaa Glu Ile Lys Ile Ile Ser Leu Xaa Val Arg Leu Asn
 1               5                  10                  15

Thr Xaa Asn Leu Xaa Pro Asn Ile Thr Tyr Gly Ser Asn Tyr Phe Leu
            20                  25                  30

Phe Cys Cys Leu Pro Ile Leu Asn Asn Ile Phe Ser Leu Asn Tyr Cys
            35                  40                  45

Lys Xaa Phe Phe Val Gly Gly Xaa Phe Tyr Leu Leu Gln Asn Asn Lys
        50                  55                  60

Val Gln Thr Ile Leu Cys Leu Thr Val Ala Leu Ser Lys His Tyr Ala
 65                  70                  75                  80

Trp Ile Ala Phe Glu Lys Lys
                85


<210> 6208
<211> 119
<212> PRT
<213> Homo sapiens
```

5425

<400> 6208
```
Pro Phe Pro Ser Leu Pro Ser Ser Cys Cys Gln Gly Leu Gln Val Cys
1               5               10              15

His Arg Pro Gly Pro Ser Leu Lys His Gly Ile Ile Ser Glu Leu Glu
            20              25              30

Val Ala Ala Ser Glu Lys Asn Pro Ser Arg Val Leu Thr Ala Glu Ile
        35              40              45

Gln Glu Leu Gly Asn Gln Pro Pro Val Cys Arg Leu Leu Ser Leu Glu
    50              55              60

Ile Leu Trp Pro Asn Leu Val Ala Val Phe Trp Asn Ser Phe Tyr Arg
65              70              75              80

Gly Arg Gln Cys Cys Ala Phe Leu Asp Phe Arg Met Phe Gln Gly Cys
            85              90              95

Cys Trp Ile Cys Val Cys Val Cys Val Cys Val Cys Val Cys Val Cys
            100             105             110

Val Arg Ala Cys Met Cys Ala
        115
```

<210> 6209
<211> 180
<212> PRT
<213> Homo sapiens

<400> 6209
```
Arg Asn Met Ser Ser Phe Ser Arg Ala Pro Gln Gln Trp Ala Thr Phe
1               5               10              15

Ala Arg Ile Trp Tyr Leu Leu Asp Gly Lys Met Gln Pro Pro Gly Lys
            20              25              30

Leu Ala Ala Met Ala Ser Ile Arg Leu Gln Gly Leu His Lys Pro Val
        35              40              45

Tyr His Ala Leu Ser Asp Cys Gly Asp His Val Val Ile Met Asn Thr
    50              55              60

Arg His Ile Ala Phe Ser Gly Asn Lys Trp Glu Gln Lys Val Tyr Ser
65              70              75              80

Ser His Thr Gly Tyr Pro Gly Gly Phe Arg Gln Val Thr Ala Ala Gln
            85              90              95
```

Leu His Leu Arg Asp Pro Val Ala Ile Val Lys Leu Ala Ile Tyr Gly
            100   105   110

Met Leu Pro Lys Asn Leu His Arg Arg Thr Met Met Glu Arg Leu His
            115   120   125

Leu Phe Pro Asp Glu Tyr Ile Pro Glu Asp Ile Leu Lys Asn Leu Val
        130   135   140

Glu Glu Leu Pro Gln Pro Arg Lys Ile Pro Lys Arg Leu Asp Glu Tyr
145   150   155   160

Thr Gln Glu Glu Ile Asp Ala Phe Pro Arg Leu Trp Thr Pro Pro Glu
                165   170   175

Asp Tyr Arg Leu
            180

<210> 6210
<211> 86
<212> PRT
<213> Homo sapiens

<400> 6210
Ala Glu Leu Gly Ala Asn Gly Ser Ile Ala Val Ile Ser Gly Arg Arg
    1   5   10   15

Val Ser Ile Gln Val Ser Asp Ser Ser Ala Arg Leu Pro Trp Val Trp
                20   25   30

Glu Glu Ala Leu Pro Phe Cys Ala Val Asp Pro Ala Cys Leu Leu Trp
            35   40   45

Ser Pro Pro Thr Leu Ala Arg Ser Phe Thr Asn Gln Arg Arg Ala Val
        50   55   60

Ser Lys Ser Ser Asp Arg Met Trp Cys Lys Cys Arg Cys Thr Ser Leu
65   70   75   80

Thr Leu Ser Cys Arg Ser
                85

<210> 6211
<211> 42
<212> PRT
<213> Homo sapiens

5427

<400> 6211
Ile Leu Ser Asp Val Trp Ser Leu Ser Ile Gln Thr Val Asn Ile Val
 1   5   10   15

Leu Val Phe Val Leu Ile Leu Ile Leu Leu Leu Tyr Ser Leu Arg Cys
               20   25   30

Ala Met Gln Thr Leu Ser Asn Cys Val Trp
           35   40

<210> 6212
<211> 269
<212> PRT
<213> Homo sapiens

<400> 6212
Arg Asp Leu Ser Glu Pro Val Ala Gly Leu Phe Tyr Phe Pro Ser Leu
 1   5   10   15

Ser Pro Ala Pro Tyr Leu Phe Ser Pro Phe Ser His Pro Arg Ser Arg
               20   25   30

Ser His Gly Gly Ala Ser Ala Ala Thr Gln Ser His Ser Ile Ser Ser
           35   40   45

Ser Ser Phe Gly Ala Glu Pro Ser Ala Pro Gly Gly Gly Gly Ser Pro
       50   55   60

Gly Ala Cys Pro Ala Leu Gly Thr Lys Ser Cys Ser Ser Ser Cys Ala
65   70   75   80

Val His Asp Leu Ile Phe Trp Arg Asp Val Lys Lys Thr Gly Phe Val
               85   90   95

Phe Gly Thr Thr Leu Ile Met Leu Leu Ser Leu Ala Ala Phe Ser Val
               100   105   110

Ile Ser Val Val Ser Tyr Leu Ile Leu Ala Leu Leu Ser Val Thr Ile
           115   120   125

Ser Phe Arg Ile Tyr Lys Ser Val Ile Gln Ala Val Gln Lys Ser Glu
       130   135   140

Glu Gly His Pro Phe Lys Ala Tyr Leu Asp Val Asp Ile Thr Leu Ser
145   150   155   160

Ser Glu Ala Phe His Asn Tyr Met Asn Ala Ala Met Val His Ile Asn
               165   170   175

5428

```
Arg Ala Leu Lys Leu Ile Ile Arg Leu Phe Leu Val Glu Asp Leu Val
        180                 185                 190

Asp Ser Leu Lys Leu Ala Val Phe Met Trp Leu Met Thr Tyr Val Gly
        195                 200                 205

Ala Val Phe Asn Gly Ile Thr Leu Leu Ile Leu Ala Glu Leu Leu Ile
    210                 215                 220

Phe Ser Val Pro Ile Val Tyr Glu Lys Tyr Lys Thr Gln Ile Asp His
225                 230                 235                 240

Tyr Val Gly Ile Ala Arg Asp Gln Thr Lys Ser Ile Val Glu Lys Ile
            245             250                 255

Gln Ala Lys Leu Pro Gly Ile Ala Lys Lys Lys Ala Glu
        260                 265
```

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<210> 6213
<211> 206
<212> PRT
<213> Homo sapiens

<400> 6213
Pro Ala Gly Asp Asn Gly Asn Met Ala Leu Asn Gly Ala Glu Val Asp
  1             5                 10                  15

Asp Phe Ser Trp Glu Pro Pro Thr Glu Ala Glu Thr Lys Val Leu Gln
            20              25                  30

Ala Arg Arg Glu Arg Gln Asp Arg Ile Ser Arg Leu Met Gly Asp Tyr
        35              40                  45

Leu Leu Arg Gly Tyr Arg Met Leu Gly Glu Thr Cys Ala Asp Cys Gly
    50              55                  60

Thr Ile Leu Leu Gln Asp Lys Gln Arg Lys Ile Tyr Cys Val Ala Cys
65                  70              75                  80

Gln Glu Leu Asp Ser Asp Val Asp Lys Asp Asn Pro Ala Leu Asn Ala
                85              90                  95

Gln Ala Ala Leu Ser Gln Ala Arg Glu His Gln Leu Ala Ser Ala Ser
            100             105                 110

Glu Leu Pro Leu Gly Ser Arg Pro Ala Pro Gln Pro Pro Val Pro Arg
        115             120                 125
```

5429

```
Pro Glu His Cys Glu Gly Ala Ala Ala Gly Leu Lys Ala Ala Gln Gly
    130             135             140

Pro Pro Ala Pro Ala Val Pro Pro Asn Thr Asp Val Met Ala Cys Thr
145             150             155             160

Gln Thr Ala Leu Leu Gln Lys Leu Thr Trp Ala Ser Ala Glu Leu Gly
            165             170             175

Ser Ser Thr Ser Leu Glu Thr Ser Ile Gln Leu Cys Gly Leu Ile Arg
            180             185             190

Ala Cys Ala Glu Ala Leu Arg Ser Leu Gln Gln Leu Gln His
            195             200             205
```

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<210> 6214
<211> 583
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (397)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6214
Ala Ala Pro Ala Trp Ala Ala Leu Pro Leu Ser Arg Ser Leu Pro Pro
  1             5             10             15

Cys Ser Asn Ser Ser Ser Phe Ser Met Pro Leu Phe Leu Leu Leu Leu
            20             25             30

Leu Val Leu Leu Leu Leu Leu Glu Asp Ala Gly Ala Gln Gln Gly Asp
            35             40             45

Gly Cys Gly His Thr Val Leu Gly Pro Glu Ser Gly Thr Leu Thr Ser
    50             55             60

Ile Asn Tyr Pro Gln Thr Tyr Pro Asn Ser Thr Val Cys Glu Trp Glu
 65             70             75             80

Ile Arg Val Lys Met Gly Glu Arg Val Arg Ile Lys Phe Gly Asp Phe
            85             90             95

Asp Ile Glu Asp Ser Asp Ser Cys His Phe Asn Tyr Leu Arg Ile Tyr
            100            105            110

Asn Gly Ile Gly Val Ser Arg Thr Glu Ile Gly Lys Tyr Cys Gly Leu
            115            120            125
```

5430

```
Gly Leu Gln Met Asn His Ser Ile Glu Ser Lys Gly Asn Glu Ile Thr
    130                 135             140

Leu Leu Phe Met Ser Gly Ile His Val Ser Gly Arg Gly Phe Leu Ala
145             150             155                 160

Ser Tyr Ser Val Ile Asp Lys Gln Asp Leu Ile Thr Cys Leu Asp Thr
                165             170             175

Ala Ser Asn Phe Leu Glu Pro Glu Phe Ser Lys Tyr Cys Pro Ala Gly
            180             185             190

Cys Leu Leu Pro Phe Ala Glu Ile Ser Gly Thr Ile Pro His Gly Tyr
        195             200             205

Arg Asp Ser Ser Pro Leu Cys Met Ala Gly Val His Ala Gly Val Val
    210             215             220

Ser Asn Thr Leu Gly Gly Gln Ile Ser Val Val Ile Ser Lys Gly Ile
225             230             235             240

Pro Tyr Tyr Glu Ser Ser Leu Ala Asn Asn Val Thr Ser Val Val Gly
            245             250             255

His Leu Ser Thr Ser Leu Phe Thr Phe Lys Thr Ser Gly Cys Tyr Gly
            260             265             270

Thr Leu Gly Met Glu Ser Gly Val Ile Ala Asp Pro Gln Ile Thr Ala
        275             280             285

Ser Ser Val Leu Glu Trp Thr Asp His Thr Gly Gln Glu Asn Ser Trp
    290             295             300

Lys Pro Lys Lys Ala Arg Leu Lys Lys Pro Gly Pro Pro Trp Ala Ala
305             310             315             320

Phe Ala Thr Asp Glu Tyr Gln Trp Leu Gln Ile Asp Leu Asn Lys Glu
            325             330             335

Lys Lys Ile Thr Gly Ile Ile Thr Thr Gly Ile Thr Met Val Glu His
            340             345             350

Asn Tyr Tyr Val Ser Ala Tyr Arg Ile Leu Tyr Ser Asp Asp Gly Gln
        355             360             365

Lys Trp Thr Val Tyr Arg Glu Pro Gly Val Glu Gln Asp Lys Ile Phe
    370             375             380

Gln Gly Asn Lys Asp Tyr His Gln Asp Val Arg Asn Xaa Phe Leu Pro
385             390             395             400
```

5431

Pro Ile Ile Ala Arg Phe Ile Arg Val Asn Pro Thr Gln Trp Gln Gln
                405   410   415

Lys Ile Ala Met Lys Met Glu Leu Leu Gly Cys Gln Phe Ile Pro Lys
                420   425   430

Gly Arg Pro Pro Lys Leu Thr Gln Pro Pro Pro Arg Asn Ser Asn
                435   440   445

Asp Leu Lys Asn Thr Thr Ala Pro Pro Lys Ile Ala Lys Gly Arg Ala
    450   455   460

Pro Lys Phe Thr Gln Pro Leu Gln Pro Arg Ser Ser Asn Glu Phe Pro
465   470   475   480

Ala Gln Thr Glu Gln Thr Thr Ala Ser Pro Asp Ile Arg Asn Thr Thr
                485   490   495

Val Thr Pro Asn Val Thr Lys Asp Val Ala Leu Ala Ala Val Leu Val
                500   505   510

Pro Val Leu Val Met Val Leu Thr Thr Leu Ile Leu Ile Leu Val Cys
                515   520   525

Ala Trp His Trp Arg Asn Arg Lys Lys Lys Thr Glu Gly Thr Tyr Asp
    530   535   540

Leu Pro Tyr Trp Asp Arg Ala Gly Asn Ser Arg Gly Leu Cys Ile Ser
545   550   555   560

Phe Leu Ser Glu Gly Cys Arg Ser Pro Thr Gly Gly Ser Ser Glu Lys
                565   570   575

Arg Val Ile Leu Trp Pro Arg
                580

<210> 6215
<211> 167
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

5432

<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (143)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (158)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (163)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6215
Pro Ser Arg Gly His Thr Trp Ala Tyr Ser Gly Xaa Ala Glu Pro Ala
 1   5   10   15

Xaa Ala Arg Leu Arg Ala Ser Leu Thr Leu Ser Arg Glu Ala Gln Lys
            20   25   30

Phe Ala Leu Ala Arg Glu Val Val Tyr Leu Glu Ser Ser Thr Thr Ala
            35   40   45

Val His Ala Leu Leu Ala Pro Ala Cys Leu Ala Gly Thr Trp Ala Leu
        50   55   60

Gly Val Gly Ala Lys Tyr Thr Leu Gly Leu His Ala Gly Pro Met Asn
65   70   75   80

Leu Arg Ala Ala Phe Ser Leu Val Ala Ala Val Ala Gly Phe Val Ala
                85   90   95

Tyr Ala Phe Ser Gln Asp Ser Leu Thr His Ala Val Glu Ser Trp Leu
            100   105   110

Asp Arg Arg Thr Ala Ser Leu Ser Ala Ala Tyr Ala Cys Gly Gly Val
            115   120   125

Glu Phe Tyr Glu Lys Leu Leu Ser Gly Asn Leu Ala Leu Arg Xaa Leu
            130   135   140

Phe Gly Gln Lys Lys Gly Glu Lys Leu Tyr Thr Pro Asn Xaa Glu His
145   150   155   160

Arg Pro Xaa Asp Thr Cys Ser
            165

```
<210> 6216
<211> 63
<212> PRT
<213> Homo sapiens

<400> 6216
Gln Gly Leu Pro Ser Met Lys Tyr Leu Thr Phe Ser His Pro Leu Lys
 1               5                  10                  15

Asn Ile His Phe Tyr Lys Met Lys Thr Ile Ile Asn Val Leu Asn Ile
             20              25                  30

Lys Lys Asn Asn Asn Leu Gln Arg Lys Ile Asn Gly Asp Ser Tyr Leu
         35              40                  45

Pro Cys Thr Phe Ser Thr Ile Val Ala Ala Ser Cys Thr His Leu
     50              55                  60


<210> 6217
<211> 521
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (84)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (93)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (94)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6217
Ala Asp Tyr Leu Leu Ser Arg Met Asp Val Thr Ser Cys Ile Ser Tyr
 1               5                  10                  15

Arg Asn Phe Ala Ser Cys Met Gly Asp Ser Arg Leu Leu Asn Lys Val
             20              25                  30

Asp Ala Tyr Ile Gln Glu His Leu Leu Gln Ile Ser Glu Glu Glu Glu
```

5434

```
            35                      40                      45

Phe Leu Lys Leu Pro Arg Leu Lys Leu Glu Val Met Leu Glu Asp Asn
    50                      55                      60

Val Cys Leu Pro Ser Asn Gly Lys Leu Tyr Thr Lys Val Ile Asn Trp
65                      70                      75                      80

Val Gln Arg Xaa Ile Trp Glu Asn Gly Asp Ser Leu Xaa Xaa Leu Met
                85                      90                      95

Glu Glu Val Gln Thr Leu Tyr Tyr Ser Ala Asp His Lys Leu Leu Asp
            100                     105                     110

Gly Asn Leu Leu Asp Gly Gln Ala Glu Val Phe Gly Ser Asp Asp Asp
            115                     120                     125

His Ile Gln Phe Val Gln Lys Lys Pro Pro Arg Glu Asn Gly His Lys
    130                     135                     140

Gln Ile Ser Ser Ser Ser Thr Gly Cys Leu Ser Ser Pro Asn Ala Thr
145                     150                     155                     160

Val Gln Ser Pro Lys His Glu Trp Lys Ile Val Ala Ser Glu Lys Thr
                165                     170                     175

Ser Asn Asn Thr Tyr Leu Cys Leu Ala Val Leu Asp Gly Ile Phe Cys
            180                     185                     190

Val Ile Phe Leu His Gly Arg Asn Ser Pro Gln Ser Ser Pro Thr Ser
    195                     200                     205

Thr Pro Lys Leu Ser Lys Ser Leu Ser Phe Glu Met Gln Gln Asp Glu
    210                     215                     220

Leu Ile Glu Lys Pro Met Ser Pro Met Gln Tyr Ala Arg Ser Gly Leu
225                     230                     235                     240

Gly Thr Ala Glu Met Asn Gly Lys Leu Ile Ala Ala Gly Gly Tyr Asn
                245                     250                     255

Arg Glu Glu Cys Leu Arg Thr Val Glu Cys Tyr Asn Pro His Thr Asp
            260                     265                     270

His Trp Ser Phe Leu Ala Pro Met Arg Thr Pro Arg Ala Arg Phe Gln
    275                     280                     285

Met Ala Val Leu Met Gly Gln Leu Tyr Val Val Gly Gly Ser Asn Gly
    290                     295                     300

His Ser Asp Asp Leu Ser Cys Gly Glu Met Tyr Asp Ser Asn Ile Asp
```

5435

305   310   315   320

Asp Trp Ile Pro Val Pro Glu Leu Arg Thr Asn Arg Cys Asn Ala Gly
                325   330   335

Val Cys Ala Leu Asn Gly Lys Leu Tyr Ile Val Gly Gly Ser Asp Pro
                340   345   350

Tyr Gly Gln Lys Gly Leu Lys Asn Cys Asp Val Phe Asp Pro Val Thr
                355   360   365

Lys Leu Trp Thr Ser Cys Ala Pro Leu Asn Ile Arg Arg His Gln Ser
                370   375   380

Ala Val Cys Glu Leu Gly Gly Tyr Leu Tyr Ile Ile Gly Gly Ala Glu
385   390   395   400

Ser Trp Asn Cys Leu Asn Thr Val Glu Arg Tyr Asn Pro Glu Asn Asn
                405   410   415

Thr Trp Thr Leu Ile Ala Pro Met Asn Val Ala Arg Arg Gly Ala Gly
                420   425   430

Val Ala Val Leu Asn Gly Lys Leu Phe Val Cys Gly Gly Phe Asp Gly
                435   440   445

Ser His Ala Ile Ser Cys Val Glu Met Tyr Asp Pro Thr Arg Asn Glu
                450   455   460

Trp Lys Met Met Gly Asn Met Thr Ser Pro Arg Ser Asn Ala Gly Ile
465   470   475   480

Ala Thr Val Gly Asn Thr Ile Tyr Ala Val Gly Gly Phe Asp Gly Asn
                485   490   495

Glu Phe Leu Asn Thr Val Glu Val Tyr Asn Leu Glu Ser Asn Glu Trp
                500   505   510

Ser Pro Tyr Thr Lys Ile Phe Gln Phe
                515   520

<210> 6218
<211> 425
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (14)

5436

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6218
Gly Val Trp Ser Leu Met Leu Leu Gly Asp Met Arg Leu Xaa Phe Xaa
 1   5   10   15

Gln Val Glu Asp Glu Leu Ser Ser Pro Val Val Val Phe Arg Phe Phe
            20   25   30

Gln Glu Leu Pro Gly Ser Asp Pro Val Phe Lys Ala Val Pro Val Pro
        35   40   45

Asn Met Thr Pro Ser Gly Val Gly Arg Glu Arg His Ser Cys Asp Ala
    50   55   60

Leu Asn Arg Trp Leu Gly Glu Gln Leu Lys Gln Leu Val Pro Ala Ser
65   70   75   80

Gly Leu Thr Val Met Asp Leu Glu Ala Glu Gly Thr Cys Leu Arg Phe
            85   90   95

Ser Pro Leu Met Thr Ala Ala Val Leu Gly Thr Arg Gly Glu Asp Val
            100   105   110

Asp Gln Leu Val Ala Cys Ile Glu Ser Lys Leu Pro Val Leu Cys Cys
        115   120   125

Thr Leu Gln Leu Arg Glu Glu Phe Lys Gln Glu Val Glu Ala Thr Ala
    130   135   140

Gly Leu Leu Tyr Val Asp Asp Pro Asn Trp Ser Gly Ile Gly Val Val
145   150   155   160

Arg Tyr Glu His Ala Asn Asp Asp Lys Ser Ser Leu Lys Ser Asp Pro
            165   170   175

Glu Gly Glu Asn Ile His Ala Gly Leu Leu Lys Lys Leu Asn Glu Leu
            180   185   190

Glu Ser Asp Leu Thr Phe Lys Ile Gly Pro Glu Tyr Lys Ser Met Lys
        195   200   205

Ser Cys Leu Tyr Val Gly Met Ala Ser Asp Asn Val Asp Ala Ala Glu
    210   215   220

Leu Val Glu Thr Ile Ala Ala Thr Ala Arg Glu Ile Glu Glu Asn Ser

5437

```
225                    230                    235                    240

Arg Leu Leu Glu Asn Met Thr Glu Val Val Arg Lys Gly Ile Gln Glu
            245                250                255

Ala Gln Val Glu Leu Gln Lys Ala Ser Glu Glu Arg Leu Leu Glu Glu
            260                265                270

Gly Val Leu Arg Gln Ile Pro Val Val Gly Ser Val Leu Asn Trp Phe
            275                280                285

Ser Pro Val Gln Ala Leu Gln Lys Gly Arg Thr Phe Asn Leu Thr Ala
    290                    295                300

Gly Ser Leu Glu Ser Thr Glu Pro Ile Tyr Val Tyr Lys Ala Gln Gly
305                    310                315                320

Ala Gly Val Thr Leu Pro Pro Thr Pro Ser Gly Ser Arg Thr Lys Gln
            325                330                335

Arg Leu Pro Gly Gln Lys Pro Phe Lys Arg Ser Leu Arg Gly Ser Asp
            340                345                350

Ala Leu Ser Glu Thr Ser Ser Val Ser His Ile Glu Asp Leu Glu Lys
            355                360                365

Val Glu Arg Leu Ser Ser Gly Pro Glu Gln Ile Thr Leu Glu Ala Ser
    370                    375                380

Ser Thr Glu Gly His Pro Gly Ala Pro Ser Pro Gln His Thr Asp Gln
385                    390                395                400

Thr Glu Ala Phe Gln Lys Gly Val Pro His Pro Glu Asp Asp His Ser
            405                410                415

Gln Val Glu Gly Pro Glu Ser Leu Arg
            420                425
```

```
<210> 6219
<211> 130
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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5438

<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (54)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (77)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6219
Ser Lys Glu Ala Ala Leu Gln Trp His Ser Trp Val Trp Cys Thr Thr
 1   5   10   15

Pro Gln Glu His Leu Xaa Phe Cys Leu Ile Asn Ala Gly Val Leu Tyr
            20   25   30

Leu Tyr Phe Ser Asn Tyr Leu Gln Ile Asp Glu Glu Xaa Tyr Gly Gly
        35   40   45

Thr Trp Glu Leu Thr Xaa Glu Gly Phe Met Thr Xaa Phe Ala Leu Phe
    50   55   60

Arg Ser Leu Asp His Leu Leu His Cys His Pro Leu Xaa Leu Met Val
65   70   75   80

Tyr Ser Ser Gln Cys Ser Leu Ser Ser Pro Lys Asp Pro Leu Gly Leu
            85   90   95

Gln His Arg Asn Leu Asp Arg Trp Gly Thr Gln Pro Leu Gly Asn Leu
            100   105   110

Glu Asp Pro Cys Phe Arg Asp Arg Glu Ser Val Cys Trp Gly Ile Ser
            115   120   125

Val Phe
    130

<210> 6220
<211> 150

5439

<212> PRT
<213> Homo sapiens

<400> 6220
Thr Pro Thr Pro Phe Gly Ser Ala Arg Ala Pro Gln Ala Arg Pro Gly
 1   5   10   15

Arg Arg Asp Gly Arg Met Ser Gly Gly Arg Arg Lys Glu Glu Pro Pro
             20   25   30

Gln Pro Gln Leu Ala Asn Gly Ala Leu Lys Val Ser Val Trp Ser Lys
         35   40   45

Val Leu Arg Ser Asp Ala Ala Trp Glu Asp Lys Asp Glu Phe Leu Asp
     50   55   60

Val Ile Tyr Trp Phe Arg Gln Ile Ile Ala Val Val Leu Gly Val Ile
 65   70   75   80

Trp Gly Val Leu Pro Leu Arg Gly Phe Leu Gly Ile Ala Gly Phe Cys
                 85   90   95

Leu Ile Asn Ala Gly Val Leu Tyr Leu Tyr Phe Ser Asn Tyr Leu Gln
             100   105   110

Ile Asp Glu Glu Glu Tyr Gly Gly Thr Trp Glu Leu Thr Lys Glu Gly
         115   120   125

Phe Met Thr Ser Phe Ala Leu Phe Met Val Ile Trp Ile Ile Phe Tyr
         130   135   140

Thr Ala Ile His Tyr Asp
145   150

<210> 6221
<211> 782
<212> PRT
<213> Homo sapiens

<400> 6221
Trp Ser Ala Ala Ala Ala Ala Ala Ala Ala Gln Ser Arg Trp Trp
 1   5   10   15

Ser Arg Arg Gly Gly Ser Arg Ser Thr Met Pro Ala Leu Pro Leu Asp
             20   25   30

Gln Leu Gln Ile Thr His Lys Asp Pro Lys Thr Gly Lys Leu Arg Thr
         35   40   45

5440

```
Ser Pro Ala Leu His Pro Glu Gln Lys Ala Asp Arg Tyr Phe Val Leu
    50                  55              60

Tyr Lys Pro Pro Pro Lys Asp Asn Ile Pro Ala Leu Val Glu Glu Tyr
65              70                  75                      80

Leu Glu Arg Ala Thr Phe Val Ala Asn Asp Leu Asp Trp Leu Leu Ala
                85              90              95

Leu Pro His Asp Lys Phe Trp Cys Gln Val Ile Phe Asp Glu Thr Leu
            100             105             110

Gln Lys Cys Leu Asp Ser Tyr Leu Arg Tyr Val Pro Arg Lys Phe Asp
        115             120             125

Glu Gly Val Ala Ser Ala Pro Glu Val Val Asp Met Gln Lys Arg Leu
    130             135             140

His Arg Ser Val Phe Leu Thr Phe Leu Arg Met Ser Thr His Lys Glu
145             150             155             160

Ser Lys Asp His Phe Ile Ser Pro Ser Ala Phe Gly Glu Ile Leu Tyr
            165             170             175

Asn Asn Phe Leu Phe Asp Ile Pro Lys Ile Leu Asp Leu Cys Val Leu
            180             185             190

Phe Gly Lys Gly Asn Ser Pro Leu Leu Gln Lys Met Ile Gly Asn Ile
        195             200             205

Phe Thr Gln Gln Pro Ser Tyr Tyr Ser Asp Leu Asp Glu Thr Leu Pro
    210             215             220

Thr Ile Leu Gln Val Phe Ser Asn Ile Leu Gln His Cys Gly Leu Gln
225             230             235             240

Gly Asp Gly Ala Asn Thr Thr Pro Gln Lys Leu Glu Glu Arg Gly Arg
            245             250             255

Leu Thr Pro Ser Asp Met Pro Leu Leu Glu Leu Lys Asp Ile Val Leu
            260             265             270

Tyr Leu Cys Asp Thr Cys Thr Thr Leu Trp Ala Phe Leu Asp Ile Phe
        275             280             285

Pro Leu Ala Cys Gln Thr Phe Gln Lys His Asp Phe Cys Tyr Arg Leu
    290             295             300

Ala Ser Phe Tyr Glu Ala Ala Ile Pro Glu Met Glu Ser Ala Ile Lys
305             310             315             320
```

5441

```
Lys Arg Arg Leu Glu Asp Ser Lys Leu Leu Gly Asp Leu Trp Gln Arg
            325             330             335

Leu Ser His Ser Arg Lys Lys Leu Met Glu Ile Phe His Ile Ile Leu
            340             345             350

Asn Gln Ile Cys Leu Leu Pro Ile Leu Glu Ser Ser Cys Asp Asn Ile
            355             360             365

Gln Gly Phe Ile Glu Glu Phe Leu Gln Ile Phe Ser Ser Leu Leu Gln
            370             375             380

Glu Lys Arg Phe Leu Arg Asp Tyr Asp Ala Leu Phe Pro Val Ala Glu
385             390             395             400

Asp Ile Ser Leu Leu Gln Gln Ala Ser Ser Val Leu Asp Glu Thr Arg
            405             410             415

Thr Ala Tyr Ile Leu Gln Ala Val Glu Ser Ala Trp Glu Gly Val Asp
            420             425             430

Arg Arg Lys Ala Thr Asp Ala Lys Asp Pro Ser Val Ile Glu Glu Pro
            435             440             445

Asn Gly Glu Pro Asn Gly Val Thr Val Thr Ala Glu Ala Val Ser Gln
            450             455             460

Ala Ser Ser His Pro Glu Asn Ser Glu Glu Glu Cys Met Gly Ala
465             470             475             480

Ala Ala Ala Val Gly Pro Ala Met Cys Gly Val Glu Leu Asp Ser Leu
            485             490             495

Ile Ser Gln Val Lys Asp Leu Leu Pro Asp Leu Gly Glu Gly Phe Ile
            500             505             510

Leu Ala Cys Leu Glu Tyr Tyr His Tyr Asp Pro Glu Gln Val Ile Asn
            515             520             525

Asn Ile Leu Glu Glu Arg Leu Ala Pro Thr Leu Ser Gln Leu Asp Arg
            530             535             540

Asn Leu Asp Arg Glu Met Lys Pro Asp Pro Thr Pro Leu Leu Thr Ser
545             550             555             560

Arg His Asn Val Phe Gln Asn Asp Glu Phe Asp Val Phe Ser Arg Asp
            565             570             575

Ser Val Asp Leu Ser Arg Val His Lys Gly Lys Ser Thr Arg Lys Glu
            580             585             590
```

5442

```
Glu Asn Thr Arg Ser Leu Leu Asn Asp Lys Arg Ala Val Ala Ala Gln
        595                 600             605

Arg Gln Arg Tyr Glu Gln Tyr Ser Val Val Val Glu Glu Val Pro Leu
    610             615             620

Gln Pro Gly Glu Ser Leu Pro Tyr His Ser Val Tyr Tyr Glu Asp Glu
625             630             635             640

Tyr Asp Asp Thr Tyr Asp Gly Asn Gln Val Gly Ala Asn Asp Ala Asp
            645             650             655

Ser Asp Asp Glu Leu Ile Ser Arg Arg Pro Phe Thr Ile Pro Gln Val
        660             665             670

Leu Arg Thr Lys Val Pro Arg Glu Gly Gln Glu Glu Asp Asp Asp Asp
        675             680             685

Glu Glu Asp Asp Ala Asp Glu Glu Ala Pro Lys Pro Asp His Phe Val
    690             695             700

Gln Asp Pro Ala Val Leu Arg Glu Lys Ala Glu Ala Arg Arg Met Ala
705             710             715             720

Phe Leu Ala Lys Lys Gly Tyr Arg His Asp Ser Ser Thr Ala Val Ala
            725             730             735

Gly Ser Pro Arg Gly His Gly Gln Ser Arg Glu Thr Thr Gln Glu Arg
            740             745             750

Arg Lys Lys Glu Ala Asn Lys Ala Thr Arg Ala Asn His Asn Arg Arg
        755             760             765

Thr Met Ala Asp Arg Lys Arg Ser Lys Gly Met Ile Pro Ser
    770             775             780
```

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<210> 6222
<211> 345
<212> PRT
<213> Homo sapiens

<400> 6222
Ile Arg His Glu Pro Gly Ser Thr Gln Ser Lys Thr Leu Met Ala Ala
    1               5               10              15

Val Phe Leu Val Thr Leu Tyr Glu Tyr Ser Pro Leu Phe Tyr Ile Ala
            20              25              30

Val Val Phe Thr Cys Phe Ile Val Thr Thr Gly Leu Val Leu Gly Trp
```

5443

```
         35                    40                    45

Phe Gly Trp Asp Val Pro Val Ile Leu Arg Asn Ser Glu Glu Thr Gln
       50                  55                  60

Phe Ser Thr Arg Val Phe Lys Lys Gln Met Arg Gln Val Lys Asn Pro
     65                  70                  75                  80

Phe Gly Leu Glu Ile Thr Asn Pro Ser Ser Ala Ser Ile Thr Thr Gly
                 85                  90                  95

Ile Thr Leu Thr Thr Asp Cys Leu Glu Asp Ser Leu Leu Thr Cys Tyr
               100                 105                 110

Trp Gly Cys Ser Val Gln Lys Leu Tyr Glu Ala Leu Gln Lys His Val
               115                 120                 125

Tyr Cys Phe Arg Ile Ser Thr Pro Gln Ala Leu Glu Asp Ala Leu Tyr
       130                 135                 140

Ser Glu Tyr Leu Tyr Gln Glu Gln Tyr Phe Ile Lys Lys Asp Ser Lys
145                 150                 155                 160

Glu Glu Ile Tyr Cys Gln Leu Pro Arg Asp Thr Lys Ile Glu Asp Phe
               165                 170                 175

Gly Thr Val Pro Arg Ser Arg Tyr Pro Leu Val Ala Leu Leu Thr Leu
               180                 185                 190

Ala Asp Glu Asp Asp Arg Glu Ile Tyr Asp Ile Ile Ser Met Val Ser
       195                 200                 205

Val Ile His Ile Pro Asp Arg Thr Tyr Lys Leu Ser Cys Arg Ile Leu
     210                 215                 220

Tyr Gln Tyr Leu Leu Leu Ala Gln Gly Gln Phe His Asp Leu Lys Gln
225                 230                 235                 240

Leu Phe Met Ser Ala Asn Asn Asn Phe Thr Pro Ser Asn Asn Ser Ser
               245                 250                 255

Ser Glu Glu Lys Asn Thr Asp Arg Ser Leu Leu Glu Lys Val Gly Leu
               260                 265                 270

Ser Glu Ser Glu Val Glu Pro Ser Glu Glu Asn Ser Lys Asp Cys Val
               275                 280                 285

Val Cys Gln Asn Gly Thr Val Asn Trp Val Leu Leu Pro Cys Arg His
       290                 295                 300

Thr Cys Leu Cys Asp Gly Cys Val Lys Tyr Phe Gln Gln Cys Pro Met
```

5444

```
305                    310                  315                      320

Cys Arg Gln Phe Val Gln Glu Ser Phe Ala Leu Cys Ser Gln Lys Glu
            325                  330                  335

Gln Asp Lys Asp Lys Pro Lys Thr Leu
            340                  345




<210> 6223
<211> 133
<212> PRT
<213> Homo sapiens

<400> 6223
Arg Ser Pro Thr Glu Thr Leu Phe Cys Lys Glu Pro Thr Ser Arg Ala
  1               5                  10                  15

Ala Ala Ala Arg Glu Glu Ser Thr Cys Ser Ser Arg Leu Thr Val Arg
            20                  25                  30

Leu Ser Ser Ala Leu Ala Gly Glu Gly Pro Gln Ala Ser Pro Thr Ala
            35                  40                  45

Thr Glu Arg Ala Ser Leu Gln Gly Asn His Ile Arg His Ala Cys Ala
     50                  55                  60

His Ser Arg Leu Lys Thr Ala Ser Lys Met Ser Met Lys Pro Leu Ser
 65                  70                  75                  80

Ser Arg Ala Val Ser Phe Asn Thr Ser Glu Tyr Tyr Leu Trp Leu Lys
                85                  90                  95

Gly Cys Met Cys Ile Gly Val Cys Val Cys Val Cys Val Cys Val Phe
            100                 105                 110

Gly Leu Val Trp Arg Met Lys Lys Gly Phe His Leu Gly Ile Cys Lys
            115                 120                 125

Tyr Ser Met Ala Ser
     130




<210> 6224
<211> 109
<212> PRT
<213> Homo sapiens

<220>
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5445

<221> SITE
<222> (108)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6224
Gly Thr Ala Glu Glu Leu Lys Arg Asn Ala Glu Thr Gly Asn Leu Pro
1   5   10   15

His Ser Tyr Arg Leu Ile Ser Val Val Ser His Ile Gly Ser Thr Ser
            20   25   30

Ser Ser Gly His Tyr Ile Ser Asp Val Tyr Asp Ile Lys Lys Gln Ala
            35   40   45

Trp Phe Thr Tyr Asn Asp Leu Glu Val Ser Lys Ile Gln Glu Ala Ala
    50   55   60

Val Gln Ser Asp Arg Asp Arg Ser Gly Tyr Ile Phe Phe Tyr Met His
65   70   75   80

Lys Glu Ile Phe Asp Glu Leu Leu Glu Thr Glu Lys Asn Ser Gln Ser
                85   90   95

Leu Ser Thr Glu Val Gly Lys Thr Thr Arg Gln Xaa Ser
            100   105

<210> 6225
<211> 219
<212> PRT
<213> Homo sapiens

<400> 6225
Pro Gly Ala Ala Trp Ser Arg Pro Asp Leu Arg Gly Cys Cys Thr Gly
1   5   10   15

Pro Gln Pro Ala Leu Arg Met Leu Val Leu Pro Ser Pro Cys Pro Gln
            20   25   30

Pro Leu Ala Phe Ser Ser Val Glu Thr Met Glu Gly Pro Pro Arg Arg
            35   40   45

Thr Cys Arg Ser Pro Glu Pro Gly Pro Ser Ser Ser Ile Gly Ser Pro
    50   55   60

Gln Ala Ser Ser Pro Pro Arg Pro Asn His Tyr Leu Leu Ile Asp Thr
65   70   75   80

Gln Gly Val Pro Tyr Thr Val Leu Val Asp Glu Glu Ser Gln Arg Glu
                85   90   95

5446

Pro Gly Ala Ser Gly Ala Pro Gly Gln Lys Lys Cys Tyr Ser Cys Pro
            100   105   110

Val Cys Ser Arg Val Phe Glu Tyr Met Ser Tyr Leu Gln Arg His Ser
            115   120   125

Ile Thr His Ser Glu Val Lys Pro Phe Glu Cys Asp Ile Cys Gly Lys
        130   135   140

Ala Phe Lys Arg Ala Ser His Leu Ala Arg His His Ser Ile His Leu
145   150   155   160

Ala Gly Gly Gly Arg Pro His Gly Cys Pro Leu Cys Pro Arg Arg Phe
                165   170   175

Arg Asp Ala Gly Glu Leu Ala Gln His Ser Arg Val His Ser Gly Glu
            180   185   190

Arg Pro Phe Gln Cys Pro His Cys Pro Arg Arg Phe Met Glu Gln Asn
        195   200   205

Thr Leu Gln Lys His Thr Arg Trp Lys His Pro
    210   215

<210> 6226
<211> 163
<212> PRT
<213> Homo sapiens

<400> 6226
Val Tyr Leu Phe Ile Tyr Phe Arg Asn Lys Ser Leu Gly Asp Lys Ser
  1   5   10   15

Glu Thr Leu Ser Pro Lys Lys Lys Lys Lys Lys Lys Asn Trp Ile
            20   25   30

Ala Trp Leu Tyr Ser Gly His Ser Met Gln Ala Gln Phe Cys Cys Ser
            35   40   45

Ala Val Cys Ser Ala Phe Leu His Ile Leu Ala Ser Pro Ser Gly Ala
        50   55   60

Lys Met Ala Ala Ala Phe Gln Ala Ser His Pro Asp Ser Asp Pro Glu
65   70   75   80

Lys Leu Pro Ile Pro Thr Trp Val Ser Leu Cys Arg Asn Glu Lys Pro
                85   90   95

5447

His Pro Ala Ala Glu Thr Ser Pro Ser Ser Val Phe Ser Gly Leu Ile
          100   105   110

His Gln Arg Arg Pro Pro Leu Asn Gln Ser Leu Ala Lys Arg Met Gly
          115   120   125

Pro Pro Gly Arg Leu Asp Gln Thr Gly Pro Ala Leu Trp Gly Trp Gly
     130   135   140

Glu Ala Gln Met Lys Ala Ala Gly Gln Asp Gly Leu Leu Asp Leu Cys
145   150   155   160

Tyr Gln Gln

<210> 6227
<211> 185
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (90)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (94)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (142)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (143)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (155)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (168)
<223> Xaa equals any of the naturally occurring L-amino acids

5448

<220>
<221> SITE
<222> (178)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6227
```
His Arg Arg Lys Gly Lys Asp Arg Val Arg Gln Gly Ala Trp Gly Gly
 1               5                  10                  15

Ala Met Val Pro Met His Leu Leu Gly Arg Leu Glu Lys Pro Leu Leu
            20                  25                  30

Leu Leu Cys Cys Ala Ser Phe Leu Leu Gly Leu Ala Leu Leu Gly Ile
            35                  40                  45

Lys Thr Asp Ile Thr Pro Val Ala Tyr Phe Phe Leu Thr Leu Gly Gly
    50                  55                  60

Phe Phe Leu Phe Ala Tyr Leu Leu Val Arg Phe Leu Glu Trp Gly Leu
65                  70                  75                  80

Arg Ser Gln Leu Gln Ser Met Gln Thr Xaa Ser Pro Gly Xaa Ser Gly
                85                  90                  95

Asn Ala Arg Asp Asn Glu Ala Phe Glu Val Pro Val Tyr Glu Glu Ala
            100                 105                 110

Val Val Gly Leu Glu Ser Gln Cys Arg Pro Lys Ser Trp Thr Asn His
            115                 120                 125

Pro Pro Thr Ala Thr Gly Gly Asp Thr Pro Ser Thr Leu Xaa Xaa Glu
    130                 135                 140

Gln Pro Ser Pro Phe Gln Lys Gly Ser Arg Xaa Lys Pro Lys Leu Gly
145                 150                 155                 160

Thr Glu Ala Glu Trp Ala Leu Xaa Gly Gly Pro Met Gly Pro Arg Lys
                165                 170                 175

Gly Xaa Pro Trp Glu Glu Leu Pro Asn
            180                 185
```

<210> 6228
<211> 58
<212> PRT
<213> Homo sapiens

<220>

5449

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<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (57)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6228
Val Leu Leu Ser Gln Leu Gln Arg Ala Gly Ala Arg Xaa Pro Ser Gly
 1               5                   10                  15

Leu Pro Gly Ala Pro Gly Thr Ala Leu His His Pro Pro Arg Glu Gly
              20                  25                  30

Asp Ser Glu Ala Gln Xaa Gly Pro Xaa Pro Thr Glu Pro Thr Pro Pro
          35                  40                  45

Tyr Ser Ser Xaa Leu Lys Asn Ile Xaa Gly
      50                  55


<210> 6229
<211> 231
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
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5450

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<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (55)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (172)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (179)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (216)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (218)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6229
Met Ser Tyr Cys Asp Glu Ser Arg Leu Ser Asn Leu Leu Arg Arg Ile
 1               5                  10                  15

Thr Arg Glu Xaa Asp Arg Asp Xaa Arg Leu Xaa Thr Val Lys Gln Leu
            20                  25                  30

Lys Glu Phe Ile Gln Gln Pro Glu Asn Lys Leu Val Leu Val Lys Gln
            35                  40                  45

Leu Asp Ile Leu Ala Ala Xaa His Asp Val Leu Asn Glu Ser Ser Lys
        50                  55                  60

Leu Leu Gln Glu Leu Arg Gln Glu Gly Ala Cys Cys Leu Gly Leu Leu
 65                  70                  75                  80

Cys Ala Ser Leu Ser Tyr Glu Ala Glu Lys Ile Phe Lys Trp Ile Phe
                85                  90                  95
```

5451

Ser Lys Phe Ser Ser Ser Ala Lys Asp Glu Val Lys Leu Leu Tyr Leu
            100   105   110

Cys Ala Thr Tyr Lys Ala Leu Glu Thr Val Gly Glu Lys Lys Ala Phe
            115   120   125

Ser Ser Val Met Gln Leu Val Met Thr Ser Leu Gln Ser Ile Leu Glu
            130   135   140

Asn Val Asp Thr Pro Glu Leu Leu Cys Lys Cys Val Lys Cys Ile Leu
145   150   155   160

Leu Val Ala Arg Cys Tyr Pro His Ile Phe Ser Xaa Asn Phe Arg Asp
                165   170   175

Thr Val Xaa Ile Leu Val Gly Trp His Arg Asp His Thr Gln Lys Pro
            180   185   190

Ser Leu Thr Gln Gln Val Ser Gly Trp Leu Gln Ser Leu Glu Pro Phe
            195   200   205

Trp Val Ala Asp Leu Ala Phe Xaa Thr Xaa Leu Leu Gly Ser Val Ser
210   215   220

Arg Arg His Gly Ser Ile Cys
225   230

<210> 6230
<211> 305
<212> PRT
<213> Homo sapiens

<400> 6230
Asp Trp Val Ser Val Gly Gly Ala Trp Val Trp Arg Ala Gly Gln Gly
  1   5   10   15

Leu Leu Gly Leu Gly Asp Gly Asp Gly Ala Gly Ser Gln Arg Arg Gln
            20   25   30

Gly Leu Arg Ala Glu Glu Arg Thr Trp Ser Pro Gly Ser Arg Val Gly
            35   40   45

Asp Ala Ala Arg His Arg Cys Phe Leu Lys Val Ser Arg Leu Glu Ala
            50   55   60

Gln Leu Leu Leu Glu Arg Tyr Pro Glu Cys Gly Asn Leu Leu Leu Arg
65   70   75   80

5452

Pro Ser Gly Asp Gly Ala Asp Gly Val Ser Val Thr Thr Arg Gln Met
             85   90   95

His Asn Gly Thr His Val Val Arg His Tyr Lys Val Lys Arg Glu Gly
            100   105   110

Pro Lys Tyr Val Ile Asp Val Glu Gln Pro Phe Ser Cys Thr Ser Leu
            115   120   125

Asp Ala Val Val Asn Tyr Phe Val Ser His Thr Lys Lys Ala Leu Val
    130   135   140

Pro Phe Leu Leu Asp Glu Asp Tyr Glu Lys Val Leu Gly Tyr Val Glu
145   150   155   160

Ala Asp Lys Glu Asn Gly Glu Asn Val Trp Val Ala Pro Ser Ala Pro
            165   170   175

Gly Pro Gly Pro Ala Pro Cys Thr Gly Gly Pro Lys Pro Leu Ser Pro
            180   185   190

Ala Ser Ser Gln Asp Lys Leu Pro Pro Leu Pro Pro Leu Pro Asn Gln
    195   200   205

Glu Glu Asn Tyr Val Thr Pro Ile Gly Asp Gly Pro Ala Val Asp Tyr
    210   215   220

Glu Asn Gln Asp Val Ala Ser Ser Ser Trp Pro Val Ile Leu Lys Pro
225   230   235   240

Lys Lys Leu Pro Lys Pro Pro Ala Lys Leu Pro Lys Pro Pro Val Gly
            245   250   255

Pro Lys Pro Glu Pro Lys Val Phe Asn Gly Gly Leu Gly Arg Lys Leu
            260   265   270

Pro Val Ser Ser Ala Gln Pro Leu Phe Pro Thr Ala Gly Leu Ala Asp
            275   280   285

Met Thr Ala Glu Leu Gln Lys Lys Leu Glu Lys Arg Arg Ala Leu Glu
    290   295   300

His
305

<210> 6231
<211> 210
<212> PRT
<213> Homo sapiens

5453

```
<400> 6231
Thr Met Ala Ser Met Gly Leu Gln Val Met Gly Ile Ala Leu Ala Val
  1               5                  10                  15

Leu Gly Trp Leu Ala Val Met Leu Cys Cys Ala Leu Pro Met Trp Arg
              20                  25                  30

Val Thr Ala Phe Ile Gly Ser Asn Ile Val Thr Ser Gln Thr Ile Trp
          35                  40                  45

Glu Gly Leu Trp Met Asn Cys Val Val Gln Ser Thr Gly Gln Met Gln
      50                  55                  60

Cys Lys Val Tyr Asp Ser Leu Leu Ala Leu Pro Gln Asp Leu Gln Ala
 65                  70                  75                  80

Ala Arg Ala Leu Val Ile Ile Ser Ile Ile Val Ala Ala Leu Gly Val
              85                  90                  95

Leu Leu Ser Val Val Gly Gly Lys Cys Thr Asn Cys Leu Glu Asp Glu
             100                 105                 110

Ser Ala Lys Ala Lys Thr Met Ile Val Ala Gly Val Val Phe Leu Leu
             115                 120                 125

Ala Gly Leu Met Val Ile Val Pro Val Ser Trp Thr Ala His Asn Ile
     130                 135                 140

Ile Gln Asp Phe Tyr Asn Pro Leu Val Ala Ser Gly Gln Lys Arg Glu
145                 150                 155                 160

Met Gly Ala Ser Leu Tyr Val Gly Trp Ala Ala Ser Gly Leu Leu Leu
             165                 170                 175

Leu Gly Gly Gly Leu Leu Cys Cys Asn Cys Pro Pro Arg Thr Asp Lys
             180                 185                 190

Pro Tyr Ser Ala Lys Tyr Ser Ala Ala Arg Ser Ala Ala Ala Ser Asn
             195                 200                 205

Tyr Val
    210


<210> 6232
<211> 88
<212> PRT
<213> Homo sapiens
```

5454

<400> 6232
Ser Phe Asn Pro Trp Pro Pro Pro Arg Asn Ser Asp Phe Ser Arg Glu
 1   5   10   15

Glu Glu Ala Ala Gly Ala Val Gly Leu Gly Leu His Arg Ala Gly Arg
                20   25   30

Ala Val Gly Lys Ala Gly Glu Leu Leu Cys Cys Trp Ala Ser Leu Trp
            35   40   45

Pro Ser Leu Pro Thr Leu Arg Cys Met Lys Cys Met Tyr Arg Pro Glu
        50   55   60

Met Phe Ile Gln Pro Ile Lys Met Glu Phe Pro Tyr Leu Ser Val Lys
 65   70   75   80

Lys Lys Lys Lys Lys Lys Leu Glu
                85

<210> 6233
<211> 33
<212> PRT
<213> Homo sapiens

<400> 6233
Asp Asn Lys Leu Ile Leu Asn Ala Ile Tyr Val Leu Ser Leu Leu Trp
 1   5   10   15

His Leu Phe Arg Ser Cys Ser Asn His Cys Ser Arg Ala Leu Gln Ile
                20   25   30

Lys

<210> 6234
<211> 63
<212> PRT
<213> Homo sapiens

<400> 6234
Leu Leu Leu Leu Leu Gly Met Ala Ala Arg Ile Val Glu Arg Arg Gly
 1   5   10   15

Leu Glu Ser Trp Ser Asn Pro Gly Leu Lys Ser Gly Leu Val Ile Phe
                20   25   30

Gln Leu Leu Ser Trp Val Ser Phe Ala Asn Phe Leu Ser Phe Ile Ser

5455

```
         35                      40                      45

Leu Ile Asn Thr Val Gly His Asn Ser Tyr Ser Cys Ile Glu Asn
     50                  55                  60
```

<210> 6235
<211> 178
<212> PRT
<213> Homo sapiens

<400> 6235

```
Gln Leu Leu Asp Lys His Ser Ala Ala Gly Phe Ala Met Ala Ala Ile
 1               5                  10                  15

Pro Pro Asp Ser Trp Gln Pro Pro Asn Val Tyr Leu Glu Thr Ser Met
             20                  25                  30

Gly Ile Ile Val Leu Glu Leu Tyr Trp Lys His Ala Pro Lys Thr Cys
         35                  40                  45

Lys Asn Phe Ala Glu Leu Ala Arg Arg Gly Tyr Tyr Asn Gly Thr Lys
     50                  55                  60

Phe His Arg Ile Ile Lys Asp Phe Met Ile Gln Gly Gly Asp Pro Thr
 65              70                  75                  80

Gly Thr Gly Arg Gly Gly Ala Ser Ile Tyr Gly Lys Gln Phe Glu Asp
             85                  90                  95

Glu Leu His Pro Asp Leu Lys Phe Thr Gly Ala Gly Ile Leu Ala Met
             100                 105                 110

Ala Asn Ala Gly Pro Asp Thr Asn Gly Ser Gln Phe Phe Val Thr Leu
         115                 120                 125

Ala Pro Thr Gln Trp Leu Asp Gly Lys His Thr Ile Phe Gly Arg Val
     130                 135                 140

Cys Gln Gly Ile Gly Met Val Asn Arg Val Gly Met Val Glu Thr Asn
145                 150                 155                 160

Ser Gln Asp Arg Pro Val Asp Asp Val Lys Ile Ile Lys Ala Tyr Pro
             165                 170                 175

Ser Gly
```

5456

```
<210> 6236
<211> 175
<212> PRT
<213> Homo sapiens

<400> 6236
Met Asp Val Lys Thr Leu Val Gln Gln Leu Tyr Thr Thr Leu Cys Ile
 1               5                  10                  15

Glu Gln His Gln Leu Asn Lys Glu Arg Glu Leu Ile Glu Arg Leu Glu
                20                  25                  30

Asp Leu Lys Glu Gln Leu Ala Pro Leu Glu Lys Val Arg Ile Glu Ile
            35                  40                  45

Ser Arg Lys Ala Glu Lys Arg Thr Thr Leu Val Leu Trp Gly Gly Leu
        50                  55                  60

Ala Tyr Met Ala Thr Gln Phe Gly Ile Leu Ala Arg Leu Thr Trp Trp
65                  70                  75                  80

Glu Tyr Ser Trp Asp Ile Met Glu Pro Val Thr Tyr Phe Ile Thr Tyr
                85                  90                  95

Gly Ser Ala Met Ala Met Tyr Ala Tyr Phe Val Met Thr Arg Gln Glu
            100                 105                 110

Tyr Val Tyr Pro Glu Ala Arg Asp Arg Gln Tyr Leu Leu Phe Phe His
            115                 120                 125

Lys Gly Ala Lys Lys Ser Arg Phe Asp Leu Glu Lys Tyr Asn Gln Leu
            130                 135                 140

Lys Asp Ala Ile Ala Gln Ala Glu Met Asp Leu Lys Arg Leu Arg Asp
145                 150                 155                 160

Pro Leu Gln Val His Leu Pro Leu Arg Gln Ile Gly Glu Lys Asp
                165                 170                 175


<210> 6237
<211> 461
<212> PRT
<213> Homo sapiens

<400> 6237
Thr Arg Pro Lys Leu Cys Ala Gly Ile Met Ile Thr Ala Ser His Asn
 1               5                  10                  15

Pro Lys Gln Asp Asn Gly Tyr Lys Val Tyr Trp Asp Asn Gly Ala Gln
```

5457

	20				25				30			

Ile Ile Ser Pro His Asp Lys Gly Ile Ser Gln Ala Ile Glu Glu Asn
       35   40   45

Leu Glu Pro Trp Pro Gln Ala Trp Asp Asp Ser Leu Ile Asp Ser Ser
       50   55   60

Pro Leu Leu His Asn Pro Ser Ala Ser Ile Asn Asn Asp Tyr Phe Glu
65   70   75   80

Asp Leu Lys Lys Tyr Cys Phe His Arg Ser Val Asn Arg Glu Thr Lys
           85   90   95

Val Lys Phe Val His Thr Ser Val His Gly Val Gly His Ser Phe Val
         100   105   110

Gln Ser Ala Phe Lys Ala Phe Asp Leu Val Pro Pro Glu Ala Val Pro
         115   120   125

Glu Gln Lys Asp Pro Asp Pro Glu Phe Pro Thr Val Lys Tyr Pro Asn
         130   135   140

Pro Glu Glu Gly Lys Gly Val Leu Thr Leu Ser Phe Ala Leu Ala Asp
145   150   155   160

Lys Thr Lys Ala Arg Ile Val Leu Ala Asn Asp Pro Asp Ala Asp Arg
           165   170   175

Leu Ala Val Ala Glu Lys Gln Asp Ser Gly Glu Trp Arg Val Phe Ser
         180   185   190

Gly Asn Glu Leu Gly Ala Leu Leu Gly Trp Trp Leu Phe Thr Ser Trp
         195   200   205

Lys Glu Lys Asn Gln Asp Arg Ser Ala Leu Lys Asp Thr Tyr Met Leu
         210   215   220

Ser Ser Thr Val Ser Ser Lys Ile Leu Arg Ala Ile Ala Leu Lys Glu
225   230   235   240

Gly Phe His Phe Glu Glu Thr Leu Thr Gly Phe Lys Trp Met Gly Asn
         245   250   255

Arg Ala Lys Gln Leu Ile Asp Gln Gly Lys Thr Val Leu Phe Ala Phe
         260   265   270

Glu Glu Ala Ile Gly Tyr Met Cys Cys Pro Phe Val Leu Asp Lys Asp
         275   280   285

Gly Val Ser Ala Ala Val Ile Ser Ala Glu Leu Ala Ser Phe Leu Ala

5458

```
          290                295                 300
Thr Lys Asn Leu Ser Leu Ser Gln Gln Leu Lys Ala Ile Tyr Val Glu
305                310                315                320

Tyr Gly Tyr His Ile Thr Lys Ala Ser Tyr Phe Ile Cys His Asp Gln
                325                330                335

Glu Thr Ile Lys Lys Leu Phe Glu Asn Leu Arg Asn Tyr Asp Gly Lys
                340                345                350

Asn Asn Tyr Pro Lys Ala Cys Gly Lys Phe Glu Ile Ser Ala Ile Arg
                355                360                365

Asp Leu Thr Thr Gly Tyr Asp Asp Ser Gln Pro Asp Lys Lys Ala Val
        370                375                380

Leu Pro Thr Ser Lys Ser Ser Gln Met Ile Thr Phe Thr Phe Ala Asn
385                390                395                400

Gly Gly Val Ala Thr Met Arg Thr Ser Gly Thr Glu Pro Lys Ile Lys
                405                410                415

Tyr Tyr Ala Glu Leu Cys Ala Pro Pro Gly Asn Ser Asp Pro Glu Gln
                420                425                430

Leu Lys Lys Glu Leu Asn Glu Leu Val Ser Ala Ile Glu Glu His Phe
                435                440                445

Phe Gln Pro Gln Lys Tyr Asn Leu Gln Pro Lys Ala Asp
        450                455                460
```

```
<210> 6238
<211> 925
<212> PRT
<213> Homo sapiens

<400> 6238
Ala Arg Gly Glu Ile Thr Gly Arg Cys Thr Ala Met Gly Pro Phe Lys
1                5                 10                15

Ser Ser Val Phe Ile Leu Ile Leu His Leu Leu Glu Gly Ala Leu Ser
                20                25                30

Asn Ser Leu Ile Gln Leu Asn Asn Asn Gly Tyr Glu Gly Ile Val Val
        35                40                45

Ala Ile Asp Pro Asn Val Pro Glu Asp Glu Thr Leu Ile Gln Gln Ile
        50                55                60
```

5459

```
Lys Asp Met Val Thr Gln Ala Ser Leu Tyr Leu Phe Glu Ala Thr Gly
 65               70               75               80

Lys Arg Phe Tyr Phe Lys Asn Val Ala Ile Leu Ile Pro Glu Thr Trp
                 85               90               95

Lys Thr Lys Ala Asp Tyr Val Arg Pro Lys Leu Glu Thr Tyr Lys Asn
             100             105             110

Ala Asp Val Leu Val Ala Glu Ser Thr Pro Pro Gly Asn Asp Glu Pro
             115             120             125

Tyr Thr Glu Gln Met Gly Asn Cys Gly Glu Lys Gly Glu Arg Ile His
     130             135             140

Leu Thr Pro Asp Phe Ile Ala Gly Lys Lys Leu Ala Glu Tyr Gly Pro
145             150             155             160

Gln Gly Arg Ala Phe Val His Glu Trp Ala His Leu Arg Trp Gly Val
             165             170             175

Phe Asp Glu Tyr Asn Asn Asp Glu Lys Phe Tyr Leu Ser Asn Gly Arg
             180             185             190

Ile Gln Ala Val Arg Cys Ser Ala Gly Ile Thr Gly Thr Asn Val Val
     195             200             205

Lys Lys Cys Gln Gly Gly Ser Cys Tyr Thr Lys Arg Cys Thr Phe Asn
     210             215             220

Lys Val Thr Gly Leu Tyr Glu Lys Gly Cys Glu Phe Val Leu Gln Ser
225             230             235             240

Arg Gln Thr Glu Lys Ala Ser Ile Met Phe Ala Gln His Val Asp Ser
             245             250             255

Ile Val Glu Phe Cys Thr Glu Gln Asn His Asn Lys Glu Ala Pro Asn
             260             265             270

Lys Gln Asn Gln Lys Cys Asn Leu Arg Ser Thr Trp Glu Val Ile Arg
             275             280             285

Asp Ser Glu Asp Phe Lys Lys Thr Thr Pro Met Thr Thr Gln Pro Pro
     290             295             300

Asn Pro Thr Phe Ser Leu Leu Gln Ile Gly Gln Arg Ile Val Cys Leu
305             310             315             320

Val Leu Asp Lys Ser Gly Ser Met Ala Thr Gly Asn Arg Leu Asn Arg
             325             330             335
```

5460

Leu Asn Gln Ala Gly Gln Leu Phe Leu Leu Gln Thr Val Glu Leu Gly
        340   345   350

Ser Trp Val Gly Met Val Thr Phe Asp Ser Ala Ala His Val Gln Ser
        355   360   365

Glu Leu Ile Gln Ile Asn Ser Gly Ser Asp Arg Asp Thr Leu Ala Lys
    370   375   380

Arg Leu Pro Ala Ala Ala Ser Gly Gly Thr Ser Ile Cys Ser Gly Leu
385   390   395   400

Arg Ser Ala Phe Thr Val Ile Arg Lys Lys Tyr Pro Thr Asp Gly Ser
            405   410   415

Glu Ile Val Leu Leu Thr Asp Gly Glu Asp Asn Thr Ile Ser Gly Cys
        420   425   430

Phe Asn Glu Val Lys Gln Ser Gly Ala Ile Ile His Thr Val Ala Leu
        435   440   445

Gly Pro Ser Ala Ala Gln Glu Leu Glu Glu Leu Ser Lys Met Thr Gly
    450   455   460

Gly Leu Gln Thr Tyr Ala Ser Asp Gln Val Gln Asn Asn Gly Leu Ile
465   470   475   480

Asp Ala Phe Gly Ala Leu Ser Ser Gly Asn Gly Ala Val Ser Gln Arg
            485   490   495

Ser Ile Gln Leu Glu Ser Lys Gly Leu Thr Leu Gln Asn Ser Gln Trp
            500   505   510

Met Asn Gly Thr Val Ile Val Asp Ser Thr Val Gly Lys Asp Thr Leu
        515   520   525

Phe Leu Ile Thr Trp Thr Thr Gln Pro Pro Gln Ile Leu Leu Trp Asp
    530   535   540

Pro Ser Gly Gln Lys Gln Gly Gly Phe Val Val Asp Lys Asn Thr Lys
545   550   555   560

Met Ala Tyr Leu Gln Ile Pro Gly Ile Ala Lys Val Gly Thr Trp Lys
            565   570   575

Tyr Ser Leu Gln Ala Ser Ser Gln Thr Leu Thr Leu Thr Val Thr Ser
        580   585   590

Arg Ala Ser Asn Ala Thr Leu Pro Pro Ile Thr Val Thr Ser Lys Thr
        595   600   605

5461

Asn Lys Asp Thr Ser Lys Phe Pro Ser Pro Leu Val Val Tyr Ala Asn
    610   615   620

Ile Arg Gln Gly Ala Ser Pro Ile Leu Arg Ala Ser Val Thr Ala Leu
625   630   635   640

Ile Glu Ser Val Asn Gly Lys Thr Val Thr Leu Glu Leu Leu Asp Asn
            645   650   655

Gly Ala Gly Ala Asp Ala Thr Lys Asp Asp Gly Val Tyr Ser Arg Tyr
            660   665   670

Phe Thr Thr Tyr Asp Thr Asn Gly Arg Tyr Ser Val Lys Val Arg Ala
        675   680   685

Leu Gly Gly Val Asn Ala Ala Arg Arg Arg Val Ile Pro Gln Gln Ser
    690   695   700

Gly Ala Leu Tyr Ile Pro Gly Trp Ile Glu Asn Asp Glu Ile Gln Trp
705   710   715   720

Asn Pro Pro Arg Pro Glu Ile Asn Lys Asp Asp Val Gln His Lys Gln
            725   730   735

Val Cys Phe Ser Arg Thr Ser Ser Gly Gly Ser Phe Val Ala Ser Asp
            740   745   750

Val Pro Asn Ala Pro Ile Pro Asp Leu Phe Pro Pro Gly Gln Ile Thr
            755   760   765

Asp Leu Lys Ala Glu Ile His Gly Gly Ser Leu Ile Asn Leu Thr Trp
    770   775   780

Thr Ala Pro Gly Asp Asp Tyr Asp His Gly Thr Ala His Lys Tyr Ile
785   790   795   800

Ile Arg Ile Ser Thr Ser Ile Leu Asp Leu Arg Asp Lys Phe Asn Glu
            805   810   815

Ser Leu Gln Val Asn Thr Thr Ala Leu Ile Pro Lys Glu Ala Asn Ser
            820   825   830

Glu Glu Val Phe Leu Phe Lys Pro Glu Asn Ile Thr Phe Glu Asn Gly
            835   840   845

Thr Asp Leu Phe Ile Ala Ile Gln Ala Val Asp Lys Val Asp Leu Lys
    850   855   860

Ser Glu Ile Ser Asn Ile Ala Arg Val Ser Leu Phe Ile Pro Pro Gln
865   870   875   880

5462


```
Thr Pro Pro Glu Thr Pro Ser Pro Asp Glu Thr Ser Ala Pro Cys Pro
            885         890             895

Asn Ile His Ile Asn Ser Thr Ile Pro Gly Ile His Ile Leu Lys Ile
        900             905             910

Met Trp Lys Trp Ile Gly Glu Leu Gln Leu Ser Ile Ala
        915             920             925
```


<210> 6239
<211> 311
<212> PRT
<213> Homo sapiens

<400> 6239
```
Val Leu Lys Phe Leu Leu Leu Gln Thr Met Asp Glu Gln Ser Gln Gly
 1           5               10              15

Met Gln Gly Pro Pro Val Pro Gln Phe Gln Pro Gln Lys Ala Leu Arg
            20              25              30

Pro Asp Met Gly Tyr Asn Thr Leu Ala Asn Phe Arg Ile Glu Lys Lys
        35              40          '   45

Ile Gly Arg Gly Gln Phe Ser Glu Val Tyr Arg Ala Ala Cys Leu Leu
    50              55              60

Asp Gly Val Pro Val Ala Leu Lys Lys Val Gln Ile Phe Asp Leu Met
65              70              75              80

Asp Ala Lys Ala Arg Ala Asp Cys Ile Lys Glu Ile Asp Leu Leu Lys
            85              90              95

Gln Leu Asn His Pro Asn Val Ile Lys Tyr Tyr Ala Ser Phe Ile Glu
        100             105             110

Asp Asn Glu Leu Asn Ile Val Leu Glu Leu Ala Asp Ala Gly Asp Leu
        115             120             125

Ser Arg Met Ile Lys His Phe Lys Lys Gln Lys Arg Leu Ile Pro Glu
    130             135             140

Arg Thr Val Trp Lys Tyr Phe Val Gln Leu Cys Ser Ala Leu Glu His
145             150             155             160

Met His Ser Arg Arg Val Met His Arg Asp Ile Lys Pro Ala Asn Val
            165             170             175
```

5463

Phe Ile Thr Ala Thr Gly Val Val Lys Leu Gly Asp Leu Gly Leu Gly
            180   185   190

Arg Phe Phe Ser Ser Lys Thr Thr Ala Ala His Ser Leu Val Gly Thr
            195   200   205

Pro Tyr Tyr Met Ser Pro Glu Arg Ile His Glu Asn Gly Tyr Asn Phe
    210   215   220

Lys Ser Asp Ile Trp Ser Leu Gly Cys Leu Leu Tyr Glu Met Ala Ala
225   230   235   240

Leu Gln Ser Pro Phe Tyr Gly Asp Lys Met Asn Leu Tyr Ser Leu Cys
            245   250   255

Lys Lys Ile Glu Gln Cys Asp Tyr Pro Pro Leu Pro Ser Asp His Tyr
            260   265   270

Ser Glu Glu Leu Arg Gln Leu Val Asn Met Cys Ile Asn Pro Asp Pro
            275   280   285

Glu Lys Arg Pro Asp Val Thr Tyr Val Tyr Asp Val Ala Lys Arg Met
    290   295   300

His Ala Cys Thr Ala Ser Ser
305   310

<210> 6240
<211> 258
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (220)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (248)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

5464

<222> (254)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (258)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6240
```
Gly Gly His Leu Leu Pro Gly Pro Ala Ala Val His Cys Ala Ser Xaa
 1               5               10              15

Val Leu Leu His Pro Pro Pro Ala Asp Leu Cys Trp Tyr Cys Arg Asp
             20              25              30

Trp Phe Leu Lys Gly Asn Leu Leu Ile Ile Ile Val Ser Val Leu Ile
         35              40              45

Ile Leu Pro Leu Ala Leu Met Lys His Leu Gly Tyr Leu Gly Tyr Thr
     50              55              60

Ser Gly Leu Ser Leu Thr Cys Met Leu Phe Phe Leu Val Ser Val Ile
65              70              75              80

Tyr Lys Lys Phe Gln Leu Gly Cys Ala Ile Gly His Asn Glu Thr Ala
             85              90              95

Met Glu Ser Glu Ala Leu Val Gly Leu Pro Ser Gln Gly Leu Asn Ser
             100             105             110

Ser Cys Glu Ala Gln Met Phe Thr Val Asp Ser Gln Met Ser Tyr Thr
         115             120             125

Val Pro Ile Met Ala Phe Ala Phe Val Cys His Pro Glu Val Leu Pro
     130             135             140

Ile Tyr Thr Glu Leu Cys Arg Ser Thr Thr Ser Thr Pro Gln Ala Leu
145             150             155             160

Gln Ala Gln Asp Ala Gly Arg Gly Gln Arg Val His Trp Gly His Val
             165             170             175

Leu His Val Trp Ala His Ser Asn Leu Trp Ile Pro His Leu Leu Gln
             180             185             190

Gln Cys Glu Gly Gly Asp Ala Ala His Val Gln Pro Glu Gly Pro Ala
         195             200             205

His Pro Leu Cys Ala Pro Gly Arg Ala Ala Ser Xaa Val Thr Pro His
     210             215             220
```

5465

```
Cys Ala Ser Arg Ala Gly Ser Tyr Pro Pro Gly Pro Gly Ser Asn Cys
225              230          235              240

Phe Ser Gln Ala Arg Ala Phe Xaa Leu Ala Thr Thr Leu Xaa Ala Ile
             245              250              255

Ser Xaa
```

```
<210> 6241
<211> 149
<212> PRT
<213> Homo sapiens

<400> 6241
Val His Leu Leu Leu Phe Ser Arg Pro Tyr Asp Gly Lys Trp Ser Lys
  1               5                   10                  15

Thr Met Val Gly Phe Gly Pro Glu Asp Asp His Phe Val Ala Glu Leu
              20                  25                  30

Thr Tyr Asn Tyr Gly Val Gly Asp Tyr Lys Leu Gly Asn Asp Phe Met
          35                  40                  45

Gly Ile Thr Leu Ala Ser Ser Gln Ala Val Ser Asn Ala Arg Lys Leu
      50                  55                  60

Glu Trp Pro Leu Thr Glu Val Ala Glu Gly Val Phe Glu Thr Glu Ala
 65              70                  75                  80

Pro Gly Gly Tyr Lys Phe Tyr Leu Gln Asn Arg Ser Leu Pro Gln Ser
              85                  90                  95

Asp Pro Val Leu Lys Val Thr Leu Ala Val Ser Asp Leu Gln Lys Ser
              100              105              110

Leu Asn Tyr Trp Cys Asn Leu Leu Gly Met Lys Ile Tyr Glu Lys Asp
          115              120              125

Glu Glu Lys Gln Arg Ala Leu Leu Gly Tyr Ala Asp Asn Gln Val Ser
          130              135              140

Asn Leu Gly Glu Glu
145
```

```
<210> 6242
<211> 126
```

5466

<210> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (126)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6242
Leu Ser Leu Arg Thr Arg Glu Thr Pro Ala Pro Pro Arg Cys Glu Ala
 1   5   10   15

Ala Ser Gln Gly Arg Val Gly Trp Arg Ala Asp Ala Ala Ala Glu Glu
            20   25   30

Ala Val Arg Ser Val Trp Asn Arg Thr Arg Asp Arg Gly Thr Met Ala
            35   40   45

Pro Gln Asn Leu Ser Thr Phe Cys Leu Leu Leu Leu Tyr Leu Ile Gly
    50   55   60

Ala Val Ile Ala Gly Arg Asp Phe Tyr Lys Ile Leu Gly Val Pro Arg
 65   70   75   80

Ser Ala Ser Ile Lys Asp Ile Lys Lys Ala Tyr Arg Lys Leu Ala Leu
            85   90   95

Gln Leu His Pro Asp Arg Asn Pro Asp Asp Pro Gln Ala Gln Glu Lys
            100   105   110

Phe Gln Asp Leu Gly Ala Ala Tyr Glu Val Leu Val Arg Xaa
            115   120   125

<210> 6243
<211> 384
<212> PRT
<213> Homo sapiens

<400> 6243
Gly Ile Leu Ala His Ser Leu Ser Pro Thr Leu Leu Ser His Arg Cys
 1   5   10   15

Gln Glu Glu Cys Pro Phe Gly Ser Phe Gly Phe Gln Cys Ser Gln Arg
            20   25   30

Cys Asp Cys His Asn Gly Gly Gln Cys Ser Pro Thr Thr Gly Ala Cys
            35   40   45

Glu Cys Glu Pro Gly Tyr Lys Gly Pro Arg Cys Gln Glu Arg Leu Cys

5467

```
                50                         55                         60

        Pro Glu Gly Leu His Gly Pro Gly Cys Thr Leu Pro Cys Pro Cys Asp
        65                  70                  75                  80

        Ala Asp Asn Thr Ile Ser Cys His Pro Val Thr Gly Ala Cys Thr Cys
                        85                  90                  95

        Gln Pro Gly Trp Ser Gly His His Cys Asn Glu Ser Cys Pro Val Gly
                    100                 105                 110

        Tyr Tyr Gly Asp Gly Cys Gln Leu Pro Cys Thr Cys Gln Asn Gly Ala
                    115                 120                 125

        Asp Cys His Ser Ile Thr Gly Gly Cys Thr Cys Ala Pro Gly Phe Met
                130                 135                 140

        Gly Glu Val Cys Ala Val Ser Cys Ala Ala Gly Thr Tyr Gly Pro Asn
        145                 150                 155                 160

        Cys Ser Ser Ile Cys Ser Cys Asn Asn Gly Gly Thr Cys Ser Pro Val
                    165                 170                 175

        Asp Gly Ser Cys Thr Cys Lys Glu Gly Trp Gln Gly Leu Asp Cys Thr
                    180                 185                 190

        Leu Pro Cys Pro Ser Gly Thr Trp Gly Leu Asn Cys Asn Glu Ser Cys
                    195                 200                 205

        Thr Cys Ala Asn Gly Ala Ala Cys Ser Pro Ile Asp Gly Ser Cys Ser
                210                 215                 220

        Cys Thr Pro Gly Trp Leu Gly Asp Thr Cys Glu Leu Pro Cys Pro Asp
        225                 230                 235                 240

        Gly Thr Phe Gly Leu Asn Cys Ser Glu His Cys Asp Cys Ser His Ala
                    245                 250                 255

        Asp Gly Cys Asp Pro Val Thr Gly His Cys Cys Cys Leu Ala Gly Trp
                    260                 265                 270

        Thr Gly Ile Arg Cys Asp Ser Thr Cys Pro Pro Gly Arg Trp Gly Pro
                    275                 280                 285

        Asn Cys Ser Val Ser Cys Ser Cys Glu Asn Gly Gly Ser Cys Ser Pro
                290                 295                 300

        Glu Asp Gly Ser Cys Glu Cys Ala Pro Gly Phe Arg Gly Pro Leu Cys
        305                 310                 315                 320

        Gln Arg Ile Cys Pro Pro Gly Phe Tyr Gly His Gly Cys Ala Gln Pro
```

5468

```
            325                 330                 335

Cys Pro Leu Cys Val His Ser Ser Arg Pro Cys His His Ile Ser Gly
        340                 345                 350

Ile Cys Glu Cys Leu Pro Gly Phe Ser Gly Ala Leu Cys Asn Gln Ala
        355                 360                 365

Ser Lys Trp Gln Lys Gln Ile Leu Ile Pro Thr Cys Met Leu Lys Gly
        370                 375                 380
```

```
<210> 6244
<211> 159
<212> PRT
<213> Homo sapiens

<400> 6244
Ile His Met Ala Leu Leu Arg Lys Ile Asn Gln Val Leu Leu Phe Leu
    1               5                  10                  15

Leu Ile Val Thr Leu Cys Val Ile Leu Tyr Lys Lys Val His Lys Gly
            20                  25                  30

Thr Val Pro Lys Asn Asp Ala Asp Glu Ser Glu Thr Pro Glu Glu
        35                  40                  45

Leu Glu Glu Glu Ile Pro Val Val Ile Cys Ala Ala Ala Gly Arg Met
    50                  55                  60

Gly Ala Thr Met Ala Ala Ile Asn Ser Ile Tyr Ser Asn Thr Asp Ala
65                  70                  75                  80

Asn Ile Leu Phe Tyr Val Val Gly Leu Arg Asn Thr Leu Thr Arg Ile
                85                  90                  95

Arg Lys Trp Ile Glu His Ser Lys Leu Arg Glu Ile Asn Phe Lys Ile
            100                 105                 110

Val Glu Phe Asn Pro Met Val Leu Lys Gly Lys Ile Arg Pro Asp Ser
            115                 120                 125

Ser Arg Pro Glu Leu Leu Gln Pro Leu Asn Phe Val Arg Phe Tyr Leu
        130                 135                 140

Pro Leu Leu Ile His Gln His Glu Glu Ser His Leu Phe Gly Arg
145                 150                 155
```

```
<210> 6245
<211> 27
<212> PRT
<213> Homo sapiens

<400> 6245
Arg Gln Pro Lys Cys Pro Ser Thr Asp Glu Trp Ile Gln Lys Met Trp
 1               5                  10                  15

Tyr Val Tyr Thr Met Gly Thr Ser Gln Pro Gly
            20                  25



<210> 6246
<211> 77
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (62)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6246
Asp Leu Met Ile Leu Asn Thr Gly Val Ser Pro Ala Gln Ala Leu Ser
 1               5                  10                  15

Leu Pro Ala Ala Ser His Val Arg His Asp Leu Leu Leu Leu Ala Phe
            20                  25                  30

His His Asp Cys Glu Ala Phe Pro Ala Thr Trp Asn Cys Lys Ser Ile
            35                  40                  45

Lys Pro Leu Phe Phe Tyr Lys Trp Pro Ser Leu Lys Tyr Xaa Phe Ile
    50                  55                  60

Asn Ser Val Lys Trp Thr Ser Thr Val Asn Trp Tyr Gln
 65                  70                  75



<210> 6247
<211> 251
<212> PRT
<213> Homo sapiens

<220>
```

5470

```
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6247
Xaa Leu Val Leu Xaa Ser Tyr Leu Gly Asp Thr Ile Glu Gly Thr Pro
 1               5                  10                  15

Ala Gly Thr Gly Pro Glu Phe Pro Gly Arg Pro Thr Arg Pro Glu Gly
             20                  25                  30

Ser Arg Gly Cys Gly Lys Gln His Ile Ser Asp Ser Ser Trp Leu Leu
         35                  40                  45

Asp Ser Ala Gly Arg Glu Gly Arg Leu Val Ala Met Ser Gln Gln Lys
     50                  55                  60

Cys Ile Val Ile Phe Ala Leu Val Cys Cys Phe Ala Ile Leu Val Ala
 65                  70                  75                  80

Leu Ile Phe Ser Ala Val Asp Ile Met Gly Glu Asp Glu Asp Gly Leu
             85                  90                  95

Ser Glu Lys Asn Cys Gln Asn Lys Cys Arg Ile Ala Leu Val Glu Asn
             100                 105                 110

Ile Pro Glu Gly Leu Asn Tyr Ser Glu Asn Ala Pro Phe His Leu Ser
         115                 120                 125

Leu Phe Gln Gly Trp Met Asn Leu Leu Asn Met Ala Lys Lys Ser Val
     130                 135                 140

Asp Ile Val Ser Ser His Trp Asp Leu Asn His Thr His Pro Ser Ala
145                 150                 155                 160

Cys Gln Gly Gln Arg Leu Phe Glu Lys Leu Leu Gln Leu Thr Ser Gln
             165                 170                 175

Asn Ile Glu Ile Lys Leu Val Ser Asp Val Thr Ala Asp Ser Lys Val
             180                 185                 190

Leu Glu Ala Leu Lys Leu Lys Gly Ala Glu Val Thr Tyr Met Asn Met
             195                 200                 205

Thr Ala Tyr Asn Lys Gly Arg Leu Gln Ser Ser Phe Trp Ile Val Asp
     210                 215                 220
```

5471

```
Lys Gln His Val Tyr Ile Gly Ser Ala Gly Leu Asp Trp Gln Ser Leu
225             230             235             240

Gly Gln Val His Ile Leu Leu Tyr Ser Cys Lys
                245             250
```

```
<210> 6248
<211> 137
<212> PRT
<213> Homo sapiens

<400> 6248
Lys Gly Val Thr Glu Phe Gln Gln Phe Ser Asp Phe Tyr Ile Leu Phe
 1             5                 10                  15

Leu Phe Leu Ser Asn Pro Cys Leu Leu Ser Pro Gly Gly Lys Tyr Ile
            20              25                  30

Phe Phe Asn Val Phe Pro Ala Phe Leu Pro Lys Cys Val Phe Phe Phe
         35                  40                  45

Gly Leu Leu Tyr Pro Ala Ser Ser Ala Val Pro Gly Ile Gly Pro Ser
     50              55                  60

Leu Gln Lys Pro Phe Gln Glu Tyr Leu Glu Ala Gln Arg Gln Lys Leu
65              70                  75                  80

His His Lys Ser Glu Met Gly Thr Pro Gln Gly Glu Asn Trp Leu Ser
             85                  90                  95

Trp Met Phe Glu Lys Leu Val Val Val Met Val Cys Tyr Phe Ile Leu
            100                 105                 110

Ser Ile Ile Asn Ser Met Ala Gln Ser Tyr Ala Lys Arg Ile Gln Gln
            115                 120                 125

Arg Leu Asn Ser Glu Glu Lys Thr Lys
        130             135
```

```
<210> 6249
<211> 125
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
```

<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6249
Ala Xaa Ser Trp Ala Ala Leu His Ser Gln Val Phe Pro Ala Leu Thr
 1   5   10   15

Pro Lys Arg Trp Thr Gln Val Arg Arg Gly Thr Ala Thr Val Gly Gly
            20   25   30

Met Ala Ile Leu Gln Val Thr Ala Gly His Pro Leu Ala Met Ala Gln
        35   40   45

Gly Pro Ala Gly His Pro Pro Thr Met Val Gln Gly Pro Ala Gly His
    50   55   60

Pro Leu Ala Met Ala Gln Gly Pro Ala Gly His Pro Pro Thr Met Val
65   70   75   80

Gln Gly Pro Ala Gly Leu Pro Leu Ala Met Ala Gln Val Thr His Pro
            85   90   95

Leu Val His Ile Thr Glu Glu Val Glu Glu Asn Arg Thr Gln Asp Gly
            100   105   110

Lys Pro Glu Arg Ile Ala Gln Leu Thr Trp Asn Glu Ala
        115   120   125

<210> 6250
<211> 289
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (225)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (228)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (229)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6250

5473

```
Gly Glu Glu Gln Pro Leu Ala Ala Ala Pro Thr Glu Cys Leu Glu Gln
 1               5                  10                  15

Val Ile Gly Gly Ala Gly Asp Pro Gly Thr Trp Ala Ser Phe Pro Ser
                 20                  25                  30

Pro Leu Pro Gly Pro Ala Pro Leu Lys Gly Gly Lys Thr Met Ala Thr
         35                  40                  45

Asn Phe Ser Asp Ile Val Lys Gln Gly Tyr Val Lys Met Lys Ser Arg
     50                  55                  60

Lys Leu Gly Ile Tyr Arg Arg Cys Trp Leu Val Phe Arg Lys Ser Ser
 65                  70                  75                  80

Ser Lys Gly Pro Gln Arg Leu Glu Lys Tyr Pro Asp Glu Lys Ser Val
                 85                  90                  95

Cys Leu Arg Gly Cys Pro Lys Val Thr Glu Ile Ser Asn Val Lys Cys
             100                 105                 110

Val Thr Arg Leu Pro Lys Glu Thr Lys Arg Gln Ala Val Ala Ile Ile
         115                 120                 125

Phe Thr Asp Asp Ser Ala Arg Thr Phe Thr Cys Asp Ser Glu Leu Glu
     130                 135                 140

Ala Glu Glu Trp Tyr Lys Thr Leu Ser Val Glu Cys Leu Gly Ser Arg
145                 150                 155                 160

Leu Asn Asp Ile Ser Leu Gly Glu Pro Asp Leu Leu Ala Pro Gly Val
                 165                 170                 175

Gln Cys Glu Gln Thr Asp Arg Phe Asn Val Phe Leu Leu Pro Cys Pro
         180                 185                 190

Asn Leu Asp Val Tyr Gly Glu Cys Lys Leu Gln Ile Thr His Glu Asn
         195                 200                 205

Ile Tyr Leu Trp Asp Ile His Asn Pro Arg Val Lys Leu Val Ser Trp
     210                 215                 220

Xaa Leu Cys Xaa Xaa Arg Arg Tyr Gly Arg Asp Ala Thr Arg Phe Thr
225                 230                 235                 240

Phe Glu Ala Gly Arg Met Cys Asp Ala Gly Glu Gly Leu Tyr Thr Phe
             245                 250                 255

Gln Thr Gln Glu Gly Glu Gln Ile Tyr Gln Arg Val His Ser Ala Thr
         260                 265                 270
```

5474

```
Leu Ala Ile Ala Glu Gln His Lys Arg Val Leu Leu Glu Met Glu Lys
        275             280             285

Thr



<210> 6251
<211> 147
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6251
Arg Xaa Gln Ala Pro Val Arg Asn Ser Arg Val Asp Pro Arg Val Arg
  1               5                  10                  15

Phe Asn Gln Thr Ala Gln Thr Cys Met Glu Ala Ala Ser Asp Arg Leu
                20              25              30

Gly Leu Gly Gln Arg Arg Ser Lys Thr Met Val Gly Lys Met Trp Pro
            35              40              45

Val Leu Trp Thr Leu Cys Ala Val Arg Val Thr Val Asp Ala Ile Ser
        50              55              60

Val Glu Thr Pro Gln Asp Val Leu Arg Ala Ser Gln Gly Lys Ser Val
 65              70              75              80

Thr Leu Pro Cys Thr Tyr His Thr Ser Thr Ser Ser Arg Glu Gly Leu
                85              90              95

Ile Gln Trp Asp Lys Leu Leu Leu Thr His Thr Glu Arg Val Val Ile
            100             105             110

Trp Pro Phe Ser Asn Lys Asn Tyr Ile His Gly Glu Leu Tyr Lys Asn
            115             120             125

Arg Val Ser Ile Ser Asn Asn Ala Glu Gln Ser Asp Ala Ser Ser Pro
        130             135             140

Leu Ile Ser
145
```

<210> 6252
<211> 179
<212> PRT
<213> Homo sapiens

<400> 6252

Pro	Arg	Gly	Thr	Ser	Arg	Arg	Ser	Ala	Trp	Pro	Lys	Met	Ala	Ala	Ser
1				5					10					15	

Val	Cys	Ser	Gly	Leu	Leu	Gly	Pro	Arg	Val	Leu	Ser	Trp	Ser	Arg	Glu
			20				25					30			

Leu	Pro	Cys	Ala	Trp	Arg	Ala	Leu	His	Thr	Ser	Pro	Val	Cys	Ala	Lys
		35				40					45				

Asn	Arg	Ala	Ala	Arg	Val	Arg	Val	Ser	Lys	Gly	Asp	Lys	Pro	Val	Thr
	50				55					60					

Tyr	Glu	Glu	Ala	His	Ala	Pro	His	Tyr	Ile	Ala	His	Arg	Lys	Gly	Trp
65					70				75						80

Leu	Ser	Leu	His	Thr	Gly	Asn	Leu	Asp	Gly	Glu	Asp	His	Ala	Ala	Glu
				85					90					95	

Arg	Thr	Val	Glu	Asp	Val	Phe	Leu	Arg	Lys	Phe	Met	Trp	Gly	Thr	Phe
			100					105					110		

Pro	Gly	Cys	Leu	Ala	Asp	Gln	Leu	Val	Leu	Lys	Arg	Arg	Gly	Asn	Gln
		115					120					125			

Leu	Glu	Ile	Cys	Ala	Val	Val	Leu	Arg	Gln	Leu	Ser	Pro	His	Lys	Tyr
	130				135				140						

Tyr	Phe	Leu	Val	Gly	Tyr	Ser	Glu	Thr	Leu	Leu	Ser	Tyr	Phe	Tyr	Lys
145					150				155						160

Cys	Pro	Val	Arg	Leu	His	Leu	Gln	Thr	Val	Pro	Ser	Lys	Val	Val	Tyr
				165				170					175		

Lys	Tyr	Leu

<210> 6253
<211> 288
<212> PRT
<213> Homo sapiens

<400> 6253

Glu	Ile	Arg	Val	Ser	Cys	Thr	Ala	Gly	Ala	Gly	Phe	Pro	Ala	Ala	Gln

5476

```
      1                   5                   10                  15

Ala Arg Val Arg Cys Leu Cys His Leu Ile Leu Met Ser Gly Glu Ile
            20                  25                  30

Ala Met Cys Glu Pro Glu Phe Gly Asn Asp Lys Ala Arg Glu Pro Ser
            35                  40                  45

Val Gly Gly Arg Trp Arg Val Ser Trp Tyr Glu Arg Phe Val Gln Pro
        50                  55                  60

Cys Leu Val Glu Leu Leu Gly Ser Ala Leu Phe Ile Phe Ile Gly Cys
65                  70                  75                  80

Leu Ser Val Ile Glu Asn Gly Thr Asp Thr Gly Leu Leu Gln Pro Ala
                85                  90                  95

Leu Ala His Gly Leu Ala Leu Gly Leu Val Ile Ala Thr Leu Gly Asn
            100                 105                 110

Ile Ser Gly Gly His Phe Asn Pro Ala Val Ser Leu Ala Ala Met Leu
        115                 120                 125

Ile Gly Gly Leu Asn Leu Val Met Leu Leu Pro Tyr Trp Val Ser Gln
    130                 135                 140

Leu Leu Gly Gly Met Leu Gly Ala Ala Leu Ala Lys Ala Val Ser Pro
145                 150                 155                 160

Glu Glu Arg Phe Trp Asn Ala Ser Gly Ala Ala Phe Val Thr Val Gln
            165                 170                 175

Glu Gln Gly Gln Val Ala Gly Ala Leu Val Ala Glu Ile Ile Leu Thr
        180                 185                 190

Thr Leu Leu Ala Leu Ala Val Cys Met Gly Ala Ile Asn Glu Lys Thr
    195                 200                 205

Lys Gly Pro Leu Ala Pro Phe Ser Ile Gly Phe Ala Val Thr Val Asp
    210                 215                 220

Ile Leu Ala Gly Gly Pro Val Ser Gly Gly Cys Met Asn Pro Ala Arg
225                 230                 235                 240

Ala Phe Gly Pro Ala Val Val Ala Asn His Trp Asn Phe His Trp Ile
            245                 250                 255

Tyr Trp Leu Gly Pro Leu Leu Ala Gly Leu Leu Val Gly Leu Leu Ile
        260                 265                 270

Arg Cys Phe Ile Gly Asp Gly Lys Thr Arg Leu Ile Leu Lys Ala Gln
```

5477

```
<210> 6254
<211> 165
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (158)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6254
Gly Val Thr Arg Pro Thr Arg Ala Pro Arg Phe Ala Ser Ala Ala Ser
  1               5                  10                  15


Trp Pro Lys Gly Gly Asp Arg Gly Gly Trp Arg Gly Ala Ala Arg Thr
            20                  25                  30


Arg Ser Pro Gly Ala Gly Pro Val Arg Thr Ala Arg Glu Gly Arg Ser
            35                  40                  45


Val Gly Arg Ser Arg Pro Arg Asp Ser Ile Ser Ala Arg Ser Asp Asn
    50                  55                  60


Ser Pro Phe Pro Trp Arg Ser Leu Arg Ala Trp His Pro Ala Gly Arg
65                  70                  75                  80


Leu Lys Thr Val Val Ser Ser Ile Ala Ser Leu Asp Leu Ala Thr Ile
                85                  90                  95


Ser Glu Met Ser Ser Arg Ser Thr Lys Asp Leu Ile Lys Ser Lys Trp
                100                 105                 110


Gly Ser Lys Pro Ser Asn Ser Lys Ser Glu Thr Thr Leu Glu Lys Leu
            115                 120                 125


Lys Gly Glu Ile Ala His Leu Lys Thr Ser Val Asp Glu Ile Thr Ser
            130                 135                 140


Gly Lys Gly Lys Leu Thr Asp Lys Glu Arg Gln Arg Phe Xaa Glu Lys
145                 150                 155                 160


Ile Arg Val Leu Glu
                165
```

<210> 6255
<211> 189
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (137)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6255
Ser Thr Gly Pro Cys Pro Ser His Gly Gln Arg Phe Glu Ser Trp Leu
 1   5   10   15

Ser Cys Thr Cys Val Trp Pro Lys Ala Lys Cys Ala Leu Leu Arg Asp
            20   25   30

Asp Leu Val Leu Val Asp Ser Pro Gly Thr Asp Val Thr Thr Glu Leu
        35   40   45

Asp Ser Trp Ile Asp Lys Phe Cys Leu Asp Ala Asp Val Phe Val Leu
    50   55   60

Val Ala Asn Ser Glu Ser Thr Leu Met Asn Thr Glu Lys His Phe Phe
65   70   75   80

His Lys Val Asn Glu Arg Leu Ser Lys Pro Asn Ile Phe Ile Leu Asn
            85   90   95

Asn Arg Trp Asp Ala Ser Ala Ser Glu Pro Glu Tyr Met Glu Asp Val
            100   105   110

Arg Arg Gln His Met Glu Arg Cys Leu His Phe Leu Val Glu Glu Leu
        115   120   125

Lys Val Val Asn Ala Leu Glu Ala Xaa Asn Arg Ile Phe Phe Val Ser
    130   135   140

Ala Lys Glu Val Leu Ser Ala Arg Lys Gln Lys Ala Gln Gly Met Pro
145   150   155   160

Glu Ser Gly Val Ala Leu Ala Glu Gly Phe His Ala Arg Leu Gln Glu
            165   170   175

Phe Gln Asn Phe Glu Gln Ile Phe Glu Val Gly Ile Leu
            180   185

<210> 6256
<211> 337
<212> PRT
<213> Homo sapiens

<400> 6256
Arg Pro Asp Leu Ala Thr Met Arg Ala Leu Leu Ala Arg Leu Leu Leu
 1   5   10   15

Cys Val Leu Val Val Ser Asp Ser Lys Gly Ser Asn Glu Leu His Gln
                 20   25   30

Val Pro Ser Asn Cys Asp Cys Leu Asn Gly Gly Thr Cys Val Ser Asn
             35   40   45

Lys Tyr Phe Ser Asn Ile His Trp Cys Asn Cys Pro Lys Lys Phe Gly
     50   55   60

Gly Gln His Cys Glu Ile Asp Lys Ser Lys Thr Cys Tyr Glu Gly Asn
 65   70   75   80

Gly His Phe Tyr Arg Gly Lys Ala Ser Thr Asp Thr Met Gly Arg Pro
                 85   90   95

Cys Leu Pro Trp Asn Ser Ala Thr Val Leu Gln Gln Thr Tyr His Ala
             100   105   110

His Arg Ser Asp Ala Leu Gln Leu Gly Leu Gly Lys His Asn Tyr Cys
             115   120   125

Arg Asn Pro Asp Asn Arg Arg Arg Pro Trp Cys Tyr Val Gln Val Gly
     130   135   140

Leu Lys Pro Leu Val Gln Glu Cys Met Val His Asp Cys Ala Asp Gly
145   150   155   160

Lys Lys Pro Ser Ser Pro Pro Glu Glu Leu Lys Phe Gln Cys Gly Gln
                 165   170   175

Lys Thr Leu Arg Pro Arg Phe Lys Ile Ile Gly Gly Glu Phe Thr Thr
             180   185   190

Ile Glu Asn Gln Pro Trp Phe Ala Ala Ile Tyr Arg Arg His Arg Gly
             195   200   205

Gly Ser Val Thr Tyr Val Cys Gly Gly Ser Leu Ile Ser Pro Cys Trp
     210   215   220

Val Ile Ser Ala Thr His Cys Phe Ile Asp Tyr Pro Lys Lys Glu Asp
225   230   235   240

5480

```
Tyr Ile Val Tyr Leu Gly Arg Ser Arg Leu Asn Ser Asn Thr Gln Gly
            245                 250                 255

Glu Met Lys Phe Glu Val Glu Asn Leu Ile Leu His Lys Asp Tyr Ser
            260                 265                 270

Ala Asp Thr Leu Ala His His Asn Asp Ile Ala Leu Leu Lys Ile Arg
            275                 280                 285

Ser Lys Glu Gly Arg Cys Ala Gln His Pro Gly Leu Tyr Arg Pro Ser
        290                 295                 300

Ala Cys Pro Arg Cys Ile Thr Ile Pro Ser Leu Ala Gln Ala Val Arg
305                 310                 315                 320

Ser Leu Ala Leu Glu Lys Arg Ile Leu Pro Thr Ile Ser Ile Arg Ser
                325                 330                 335

Ser
```

```
<210> 6257
<211> 89
<212> PRT
<213> Homo sapiens

<400> 6257
Asn Lys Lys Lys Lys Lys Lys Lys Lys Asn Ser Arg Gly Gly Pro
  1               5                 10                  15

Val Pro Asn Ser Pro Tyr Ser Glu Ser Tyr Tyr Asn Ser Leu Ala Val
              20                  25                  30

Val Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val Thr Gln Leu Asn
            35                  40                  45

Arg Leu Ala Ala His Pro Pro Phe Ala Ser Trp Arg Asn Ser Glu Glu
        50                  55                  60

Ala Arg Thr Asp Arg Leu Pro Thr Val Ala Gln Pro Glu Trp Arg Met
65                  70                  75                  80

Ala Asn Cys Lys Ala Leu Ile Phe Trp
                85
```

```
<210> 6258
<211> 370
```

5481

<212> PRT
<213> Homo sapiens

<400> 6258

```
Gly Thr Pro Ala Gly Thr Gly Pro Glu Phe Pro Gly Arg Pro Thr Arg
 1               5               10              15

Pro Gly Lys Leu Val Ala Leu Val Leu Leu Gly Val Gly Leu Ser Leu
            20              25              30

Val Gly Glu Met Phe Leu Ala Phe Arg Glu Arg Val Asn Ala Ser Arg
        35              40              45

Glu Val Glu Pro Val Glu Pro Glu Asn Cys His Leu Ile Glu Glu Leu
    50              55              60

Glu Ser Gly Ser Glu Asp Ile Asp Ile Leu Pro Ser Gly Leu Ala Phe
65              70              75              80

Ile Ser Ser Gly Leu Lys Tyr Pro Gly Met Pro Asn Phe Ala Pro Asp
                85              90              95

Glu Pro Gly Lys Ile Phe Leu Met Asp Leu Asn Glu Gln Asn Pro Arg
            100             105             110

Ala Gln Ala Leu Glu Ile Ser Gly Gly Phe Asp Lys Glu Leu Phe Asn
            115             120             125

Pro His Gly Ile Ser Ile Phe Ile Asp Lys Asp Asn Thr Val Tyr Leu
    130             135             140

Tyr Val Val Asn His Pro His Met Lys Ser Thr Val Glu Ile Phe Lys
145             150             155             160

Phe Glu Glu Gln Gln Arg Ser Leu Val Tyr Leu Lys Thr Ile Lys His
            165             170             175

Glu Leu Leu Lys Ser Val Asn Asp Ile Val Val Leu Gly Pro Glu Gln
            180             185             190

Phe Tyr Ala Thr Arg Asp His Tyr Phe Thr Asn Ser Leu Leu Ser Phe
            195             200             205

Phe Glu Met Ile Leu Asp Leu Arg Trp Thr Tyr Val Leu Phe Tyr Ser
    210             215             220

Pro Arg Glu Val Lys Val Val Ala Lys Gly Phe Cys Ser Ala Asn Gly
225             230             235             240

Ile Thr Val Ser Ala Asp Gln Lys Tyr Val Tyr Val Ala Asp Val Ala
                245             250             255
```

5482

```
Ala Lys Asn Ile His Ile Met Glu Lys His Asp Asn Trp Asp Leu Thr
        260                 265                 270

Gln Leu Lys Val Ile Gln Leu Gly Thr Leu Val Asp Asn Leu Thr Val
        275                 280                 285

Asp Pro Ala Thr Gly Asp Ile Leu Ala Gly Cys His Pro Asn Pro Met
    290                 295                 300

Lys Leu Leu Asn Tyr Asn Pro Glu Asp Pro Pro Gly Ser Glu Val Leu
305                 310                 315                 320

Arg Ile Gln Asn Val Leu Ser Glu Lys Pro Arg Val Ser Thr Val Tyr
            325                 330                 335

Ala Asn Asn Gly Ser Val Leu Gln Gly Thr Ser Val Ala Ser Val Tyr
            340                 345                 350

His Gly Lys Ile Leu Ile Gly Thr Val Phe His Lys Thr Leu Tyr Cys
            355                 360                 365

Glu Leu
    370


<210> 6259
<211> 93
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6259
Leu Met Gln Ala Ile Ser Leu Phe Ser Xaa Asp Arg Pro Gly Val Leu
    1               5                 10                  15

Gln His Arg Val Val Asp Gln Leu Gln Glu Gln Phe Ala Ile Thr Leu
            20                 25                  30

Lys Ser Tyr Ile Glu Cys Asn Arg Pro Gln Pro Ala His Arg Phe Leu
            35                 40                  45

Phe Leu Lys Ile Met Ala Met Leu Thr Glu Leu Arg Ser Ile Asn Ala
        50                 55                  60

Gln His Thr Gln Arg Leu Leu Arg Ile Gln Asp Ile His Pro Phe Ala
```

5483

65   70   75   80

Thr Pro Leu Met Gln Glu Leu Phe Gly Ile Thr Gly Ser
                    85   90

<210> 6260
<211> 86
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (32)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (53)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (84)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6260
Val Ile Lys Leu Ile Cys Pro Ala Ala Phe Pro Val Tyr Phe Gln Asp
 1   5   10   15

Met Ala Arg Gly Cys Val Cys Ser Leu Cys Ala Ser Val Cys Ile Xaa
             20   25   30

Leu Ser Ser Leu Phe Pro Leu Leu Pro Ser Val His Ser Val Asn Ile
             35   40   45

Ile Ser Cys Leu Xaa Leu Ser Lys Cys Phe Glu Ser Leu Asn Ser Cys
    50   55   60

Val Ser Ile Leu Ser Thr Ile Pro Ile Ala Val Leu His His Lys Ser
 65   70   75   80

Pro Ile Gly Xaa Tyr Pro
                85

<210> 6261
<211> 95
<212> PRT

5484

<213> Homo sapiens

<220>
<221> SITE
<222> (80)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (82)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (94)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6261
Ala Ser Phe Leu Leu Glu Leu Leu Val Leu Pro Ala Ser Thr Thr His
 1   5   10   15

Pro Cys Ser Ala Glu Pro Leu Gly Ala Glu Trp Gln Glu Pro Gln Gly
              20   25   30

Cys Pro Ile Trp Val Trp Leu Ala Gly Ser Leu Thr Ser Val Ile Cys
            35   40   45

Phe Leu Pro Phe Gln Ile Met Arg Ile Lys Pro His Gln Gly Gln His
      50   55   60

Ile Gly Glu Met Ser Phe Leu Gln His Asn Lys Cys Glu Cys Arg Xaa
65   70   75   80

Lys Xaa Asp Arg Ala Arg Gln Glu Asn Pro Cys Gly Pro Xaa Ser
                  85   90   95

<210> 6262
<211> 127
<212> PRT
<213> Homo sapiens

<400> 6262
Ala Asp Asn Asn Phe Thr Gln Glu Thr Ala Met Thr Met Ile Thr Pro
 1   5   10   15

Ser Ser Lys Leu Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr
              20   25   30

Ala Val Ala Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn

5485

```
            35                     40                      45
Ser Ala Arg Ala Trp Leu Leu Gln Asn Phe Leu Leu Phe Leu Leu Leu
    50                     55                      60
Leu Val Phe Ser Leu Leu Cys Phe Thr Leu Cys Ser Cys Pro Thr Val
65                      70                      75                  80
Leu Asp Ile Ile Phe Cys Ser Phe Gln Cys Phe Phe Ser Leu Val Phe
                    85                      90                  95
Glu Val Ser Asp Asp Lys Ser Ser Ser Ser Glu Ile Leu Tyr Ser Ala
                100                     105                 110
Glu Ser Ser Leu Leu Ile Ser His Gln Arg Tyr Ser Ser Val Ile
            115                     120                 125
```

<210> 6263
<211> 247
<212> PRT
<213> Homo sapiens

<400> 6263
```
Pro Glu Asn Ser Thr Ser Ser Phe Leu Leu Trp Gly Cys Pro Pro Ser
    1               5                   10                  15
Val Val Cys Phe Thr Val Gly Ser Pro Ala Arg Arg Pro Gln Cys Phe
                20                      25                  30
Leu Arg Ala Glu Met Ala Asn Ser Gly Leu Gln Leu Leu Gly Phe Ser
            35                      40                  45
Met Ala Leu Leu Gly Trp Val Gly Leu Val Ala Cys Thr Ala Ile Pro
    50                      55                  60
Gln Trp Gln Met Ser Ser Tyr Ala Gly Asp Asn Ile Ile Thr Ala Gln
65                      70                  75                  80
Ala Met Tyr Lys Gly Leu Trp Met Asp Cys Val Thr Gln Ser Thr Gly
                85                      90                  95
Met Met Ser Cys Lys Met Tyr Asp Ser Val Leu Ala Leu Ser Ala Ala
                100                     105                 110
Leu Gln Ala Thr Arg Ala Leu Met Val Val Ser Leu Val Leu Gly Phe
            115                     120                 125
Leu Ala Met Phe Val Ala Thr Met Gly Met Lys Cys Thr Arg Cys Gly
            130                     135                 140
```

5486

```
Gly Asp Asp Lys Val Lys Lys Ala Arg Ile Ala Met Gly Gly Gly Ile
145             150             155             160

Ile Phe Ile Val Ala Gly Leu Ala Ala Leu Val Ala Cys Ser Trp Tyr
            165             170             175

Gly His Gln Ile Val Thr Asp Phe Tyr Asn Pro Leu Ile Pro Thr Asn
                180             185             190

Ile Lys Tyr Glu Phe Gly Pro Ala Ile Phe Ile Gly Trp Ala Gly Ser
            195             200             205

Ala Leu Val Ile Leu Gly Gly Ala Leu Leu Ser Cys Ser Cys Pro Gly
        210             215             220

Asn Glu Ser Lys Ala Gly Tyr Arg Ala Pro Arg Ser Tyr Pro Lys Ser
225             230             235             240

Asn Ser Ser Lys Glu Tyr Val
                245
```

```
<210> 6264
<211> 145
<212> PRT
<213> Homo sapiens

<400> 6264
Pro Asp Ser Val Phe Ser Pro Ala Ala Ser Pro Thr Lys Glu Ile Gln
  1             5               10              15

Val Lys Lys Tyr Lys Cys Gly Leu Ile Lys Pro Cys Pro Ala Asn Tyr
            20              25              30

Phe Ala Phe Lys Ile Cys Ser Gly Ala Ala Asn Val Val Gly Pro Thr
            35              40              45

Met Cys Phe Glu Asp Arg Met Ile Met Ser Pro Val Lys Asn Asn Val
        50              55              60

Gly Arg Gly Leu Asn Ile Ala Leu Val Asn Gly Thr Thr Gly Ala Val
65              70              75              80

Leu Gly Gln Lys Ala Phe Asp Met Tyr Ser Gly Asp Val Met His Leu
            85              90              95

Val Lys Phe Leu Lys Glu Ile Pro Gly Gly Ala Leu Val Leu Val Ala
            100             105             110
```

5487

Ser Tyr Asp Asp Pro Gly Thr Lys Met Asn Asp Glu Ser Arg Lys Leu
        115   120   125

Phe Ser Asp Leu Gly Ser Ser Tyr Ala Lys Gln Leu Gly Phe Gly Thr
        130   135   140

Val
145

<210> 6265
<211> 66
<212> PRT
<213> Homo sapiens

<400> 6265
Leu Glu Ser Arg Ser Cys Thr Pro Leu Ile Phe Leu Leu Lys His Leu
  1   5   10   15

Lys Val Tyr Ile Gly Cys Gln Met Ser Asn Ile Thr Tyr Phe Ile Leu
            20   25   30

Phe Ser Ser Asn Leu Tyr Phe Thr Val Val Gln Gly Met Lys Glu Ala
        35   40   45

Gln Glu Arg Leu Thr Gly Asp Ala Phe Arg Lys Lys His Leu Glu Asp
     50   55   60

Glu Leu
 65

<210> 6266
<211> 134
<212> PRT
<213> Homo sapiens

<400> 6266
Ala Arg Gly Pro Arg Gly Leu Ala Pro Pro Arg Pro Ala Arg Pro Pro
  1   5   10   15

Pro Gly Gly Met Ser Tyr Lys Pro Asn Leu Ala Ala His Met Pro Ala
            20   25   30

Ala Ala Leu Asn Ala Ala Gly Ser Val His Ser Pro Ser Thr Ser Met
        35   40   45

Ala Thr Ser Ser Gln Tyr Arg Gln Leu Leu Ser Asp Tyr Gly Pro Pro
     50   55   60

5488

```
Ser Leu Gly Tyr Thr Gln Gly Thr Gly Asn Ser Gln Val Pro Gln Ser
65              70              75              80

Lys Tyr Ala Glu Leu Leu Ala Ile Ile Glu Glu Leu Gly Lys Glu Ile
                85              90              95

Arg Pro Thr Tyr Ala Gly Ser Lys Ser Ala Met Glu Arg Leu Lys Arg
            100             105             110

Gly Ile Ile His Ala Arg Gly Leu Val Arg Glu Cys Leu Ala Glu Thr
            115             120             125

Glu Arg Asn Ala Arg Ser
    130
```

```
<210> 6267
<211> 201
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (119)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6267
Xaa Xaa Leu Thr Lys Gly Asn Lys Ser Xaa Xaa Leu His Arg Gly Val
1               5               10              15
```

5489

```
Gly Arg Ser Arg Thr Ser Gly Ser Pro Gly Leu Gln Glu Phe Gly Thr
            20              25              30

Ser Ile Gly Thr Gly Gly Phe Ala Lys Val Lys Leu Ala Cys His Ile
            35              40              45

Leu Thr Gly Glu Met Val Ala Ile Lys Ile Met Asp Lys Asn Thr Leu
        50              55              60

Gly Ser Asp Leu Pro Arg Ile Lys Thr Glu Ile Glu Ala Leu Lys Asn
65              70              75              80

Leu Arg His Gln His Ile Cys Gln Leu Tyr His Val Leu Glu Thr Ala
            85              90              95

Asn Lys Ile Phe Met Val Leu Glu Tyr Cys Pro Gly Gly Glu Leu Phe
            100             105             110

Asp Tyr Ile Ile Ser Gln Xaa Arg Leu Ser Glu Glu Glu Thr Arg Val
            115             120             125

Val Phe Arg Gln Ile Val Ser Ala Val Ala Tyr Val His Ser Gln Gly
    130             135             140

Tyr Ala His Arg Asp Leu Lys Pro Glu Asn Leu Leu Phe Asp Glu Tyr
145             150             155             160

His Lys Leu Lys Leu Ile Asp Phe Gly Leu Cys Ala Lys Pro Lys Gly
            165             170             175

Asn Lys Asp Tyr His Leu Gln Thr Cys Cys Gly Ser Leu Ala Tyr Ala
            180             185             190

Ala Pro Glu Leu Ile Gln Gly Lys Ser
        195             200
```

```
<210> 6268
<211> 355
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (233)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
```

5490

<222> (264)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (302)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (305)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (313)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (344)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (352)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6268
Arg Pro Thr Arg Pro Val Gln Tyr Glu Leu Trp Ala Ala Leu Pro Gly
 1   5   10   15

Ala Ser Gly Val Ala Leu Ala Cys Cys Phe Val Ala Ala Ala Val Ala
            20   25   30

Leu Arg Trp Ser Gly Arg Arg Thr Ala Val Ala Arg Trp Ser Gly Arg
        35   40   45

Asp Arg Gly Ser Glu Arg Ala Trp Arg Thr Trp Thr Gly Arg Arg Thr
    50   55   60

Phe Arg Leu Gln Asn Pro Asp Leu Asp Ser Glu Ala Leu Leu Ala Leu
 65   70   75   80

Pro Leu Pro Gln Leu Val Gln Lys Leu His Ser Arg Glu Leu Ala Pro
            85   90   95

Glu Ala Val Leu Phe Thr Tyr Val Gly Lys Ala Trp Glu Val Asn Lys
            100   105   110

Gly Thr Asn Cys Val Thr Ser Tyr Leu Ala Asp Cys Glu Thr Gln Leu

5491

```
              115                    120                    125

  Ser Gln Ala Pro Arg Gln Gly Leu Leu Tyr Gly Val Pro Val Ser Leu
      130                135                140

  Lys Glu Cys Phe Thr Tyr Lys Gly Gln Asp Ser Thr Leu Gly Leu Ser
  145                150                155                160

  Leu Asn Glu Gly Val Pro Ala Glu Cys Asp Ser Val Val Val His Val
                165                170                175

  Leu Lys Leu Gln Gly Ala Val Pro Phe Val His Thr Asn Val Pro Gln
              180                185                190

  Ser Met Phe Ser Tyr Asp Cys Ser Asn Pro Leu Phe Gly Gln Thr Val
              195                200                205

  Asn Pro Trp Lys Ser Ser Lys Ser Pro Gly Gly Ser Ser Gly Gly Glu
      210                215                220

  Gly Ala Leu Ile Gly Ser Gly Gly Xaa Pro Leu Gly Leu Gly Thr Asp
  225                230                235                240

  Ile Gly Gly Ser Ile Arg Phe Pro Ser Ser Phe Cys Gly Ile Cys Gly
                245                250                255

  Leu Lys Pro Thr Gly Asn Pro Xaa Gln Cys Val Ser Pro Trp Ala Pro
              260                265                270

  Trp Pro Gly Thr Trp Lys Ser Leu Ala Leu Val Pro Ala Asn Pro Ala
      275                280                285

  Cys Ala Lys Asp Met Phe Pro Leu Gly Pro Asn Val Pro Xaa Leu Pro
      290                295                300

  Xaa Lys Lys Arg Ser Thr Pro Ser Xaa Asn Pro Cys Val Trp Gly Thr
  305                310                315                320

  Met Arg Ile Asp Asn Tyr Thr Met Pro Ser Arg His Glu Ala Ala Leu
              325                330                335

  Leu Gly Asn Lys Gln Ser Leu Xaa Trp Gly Thr Pro Ala Ser Cys Xaa
              340                345                350

  Ser Lys Thr
          355
```

<210> 6269
<211> 133

5492

<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6269
Xaa Lys Leu Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr Ala
 1   5   10   15

Val Xaa Ser Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser
             20   25   30

Ala Arg Gly Thr Phe Phe Lys Met Glu Leu Phe Glu Gly Met Arg Glu
         35   40   45

Ser Thr Lys Ile Ser Ser Leu Leu Ala Glu Leu Glu Ala Ile Gln Arg
     50   55   60

Asn Ser Ala Ser Gln Lys Ser Val Ile Val Ser Gln Trp Thr Asn Met
 65   70   75   80

Leu Lys Val Val Ala Leu His Leu Lys Lys His Gly Leu Thr Tyr Ala
             85   90   95

Thr Ile Asp Gly Ser Val Asn Pro Lys Gln Arg Met Asp Leu Val Glu
             100   105   110

Ala Phe Asn His Ser Arg Gly Pro Gln Val Met Leu Ile Ser Leu Leu
         115   120   125

Ala Gly Val Leu Val
     130

<210> 6270
<211> 466
<212> PRT
<213> Homo sapiens

<400> 6270
Asn Thr Val Met Gly Arg Lys Lys Lys Gln Leu Lys Pro Trp Cys
 1   5   10   15

5493

```
Trp Tyr Cys Asn Arg Asp Phe Asp Asp Glu Lys Ile Leu Ile Gln His
            20                  25              30

Gln Lys Ala Lys His Phe Lys Cys His Ile Cys His Lys Lys Leu Tyr
            35              40              45

Thr Gly Pro Gly Leu Ala Ile His Cys Met Gln Val His Lys Glu Thr
        50              55              60

Ile Asp Ala Val Pro Asn Ala Ile Pro Gly Arg Thr Asp Ile Glu Leu
65              70              75                      80

Glu Ile Tyr Gly Met Glu Gly Ile Pro Glu Lys Asp Met Asp Glu Arg
                85              90                      95

Arg Arg Leu Leu Glu Gln Lys Thr Gln Glu Ser Gln Lys Lys Lys Gln
            100             105             110

Gln Asp Asp Ser Asp Glu Tyr Asp Asp Asp Ser Ala Ala Ser Thr
            115             120             125

Ser Phe Gln Pro Gln Pro Val Gln Pro Gln Gln Gly Tyr Ile Pro Pro
        130             135             140

Met Ala Gln Pro Gly Leu Pro Pro Val Pro Gly Ala Pro Gly Met Pro
145             150             155             160

Pro Gly Ile Pro Pro Leu Met Pro Gly Val Pro Pro Leu Met Pro Gly
            165             170             175

Met Pro Pro Val Met Pro Gly Met Pro Pro Gly Leu His His Gln Arg
            180             185             190

Lys Tyr Thr Gln Ser Phe Cys Gly Glu Asn Ile Met Met Pro Met Gly
        195             200             205

Gly Met Met Pro Pro Gly Pro Gly Ile Pro Pro Leu Met Pro Gly Met
    210             215             220

Pro Pro Gly Met Pro Pro Pro Val Pro Arg Pro Gly Ile Pro Pro Met
225             230             235             240

Thr Gln Ala Gln Ala Val Ser Ala Pro Gly Ile Leu Asn Arg Pro Pro
            245             250             255

Ala Pro Thr Ala Thr Val Pro Ala Pro Gln Pro Pro Val Thr Lys Pro
            260             265             270

Leu Phe Pro Ser Ala Gly Gln Ala Gln Ala Ala Val Gln Gly Pro Val
        275             280             285
```

5494


```
Gly Thr Asp Phe Lys Pro Leu Asn Ser Thr Pro Ala Thr Thr Thr Glu
    290             295         300

Pro Pro Lys Pro Thr Phe Pro Ala Tyr Thr Gln Ser Thr Ala Ser Thr
305             310         315                     320

Thr Ser Thr Thr Asn Ser Thr Ala Ala Lys Pro Ala Ala Ser Ile Thr
                325             330             335

Ser Lys Pro Ala Thr Leu Thr Thr Thr Ser Ala Thr Ser Lys Leu Ile
        340             345             350

His Pro Asp Glu Asp Ile Ser Leu Glu Glu Arg Arg Ala Gln Leu Pro
        355             360             365

Lys Tyr Gln Arg Asn Leu Pro Arg Pro Gly Gln Ala Pro Ile Gly Asn
    370             375             380

Pro Pro Val Gly Pro Ile Gly Gly Met Met Pro Pro Gln Pro Gly Ile
385             390             395                     400

Pro Gln Gln Gln Gly Met Arg Pro Pro Met Pro Pro His Gly Gln Tyr
                405             410             415

Gly Gly His His Gln Gly Met Pro Gly Tyr Leu Pro Gly Ala Met Pro
            420             425             430

Pro Tyr Gly Gln Gly Pro Pro Met Val Pro Pro Tyr Gln Gly Gly Pro
        435             440             445

Pro Arg Pro Pro Met Gly Met Arg Pro Pro Val Met Ser Gln Gly Gly
    450             455             460

Arg Tyr
465



<210> 6271
<211> 111
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (70)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
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5495

<222> (110)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (111)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6271
His Thr Ala Leu Ser Ala Phe Thr Ala Ile Pro Ala Val Leu Ala Ala
 1   5   10   15

Pro Ala Met Gly Leu Glu Leu Phe Leu Asp Leu Val Ser Gln Pro Ser
             20   25   30

Arg Ala Val Tyr Ile Phe Ala Lys Lys Asn Gly Ile Pro Leu Glu Leu
         35   40   45

Arg Thr Val Asp Leu Val Lys Gly Gly Pro Ser Pro Phe Pro Arg Val
     50   55   60

Ser Thr Asn Pro Val Xaa Pro Gln Ala Pro Ala Cys Ser Ala Leu Ser
 65   70   75   80

Val Ser Pro Pro His Ser Pro Ser Pro Pro Ala Ala Ser Ala Thr
             85   90   95

Arg Glu Cys Cys Gly Leu Ser Gly Leu Glu Gly Ser Gln Xaa Xaa
             100   105   110

<210> 6272
<211> 670
<212> PRT
<213> Homo sapiens

<400> 6272
Val Pro Ser Ala Ser Gln Val Arg Ala Ser Leu Pro Glu Pro Arg Asn
 1   5   10   15

Ser Ala Ala Ala Met Ala Ser Asn Met Asp Arg Glu Met Ile Leu Ala
             20   25   30

Asp Phe Gln Ala Cys Thr Gly Ile Glu Asn Ile Asp Glu Ala Ile Thr
             35   40   45

Leu Leu Glu Gln Asn Asn Trp Asp Leu Val Ala Ala Ile Asn Gly Val
     50   55   60

Ile Pro Gln Glu Asn Gly Ile Leu Gln Ser Glu Tyr Gly Gly Glu Thr

5496

```
65                      70                      75                      80

Ile Pro Gly Pro Ala Phe Asn Pro Ala Ser His Pro Ala Ser Ala Pro
              85                  90                  95

Thr Ser Ser Ser Ser Ser Ala Phe Arg Pro Val Met Pro Ser Arg Gln
          100             105             110

Ile Val Glu Arg Gln Pro Arg Met Leu Asp Phe Arg Val Glu Tyr Arg
          115             120             125

Asp Arg Asn Val Asp Val Val Leu Glu Asp Thr Cys Thr Val Gly Glu
      130             135             140

Ile Lys Gln Ile Leu Glu Asn Glu Leu Gln Ile Pro Val Ser Lys Met
145             150             155             160

Leu Leu Lys Gly Trp Lys Thr Gly Asp Val Glu Asp Ser Thr Val Leu
              165             170             175

Lys Ser Leu His Leu Pro Lys Asn Asn Ser Leu Tyr Val Leu Thr Pro
              180             185             190

Asp Leu Pro Pro Pro Ser Ser Ser Ser His Ala Gly Ala Leu Gln Glu
          195             200             205

Ser Leu Asn Gln Asn Phe Met Leu Ile Ile Thr His Arg Glu Val Gln
      210             215             220

Arg Glu Tyr Asn Leu Asn Phe Ser Gly Ser Ser Thr Ile Gln Glu Val
225             230             235             240

Lys Arg Asn Val Tyr Asp Leu Thr Ser Ile Pro Val Arg His Gln Leu
              245             250             255

Trp Glu Gly Trp Pro Thr Ser Ala Thr Asp Asp Ser Met Cys Leu Ala
              260             265             270

Glu Ser Gly Leu Ser Tyr Pro Cys His Arg Leu Thr Val Gly Arg Arg
          275             280             285

Ser Ser Pro Ala Gln Thr Arg Glu Gln Ser Glu Glu Gln Ile Thr Asp
      290             295             300

Val His Met Val Ser Asp Ser Asp Gly Asp Asp Phe Glu Asp Ala Thr
305             310             315             320

Glu Phe Gly Val Asp Asp Gly Glu Val Phe Gly Met Ala Ser Ser Ala
              325             330             335

Leu Arg Lys Ser Pro Met Met Pro Glu Asn Ala Glu Asn Glu Gly Asp
```

5497

```
            340                    345                    350

Ala Leu Leu Gln Phe Thr Ala Glu Phe Ser Ser Arg Tyr Gly Asp Cys
        355                    360                    365

His Pro Val Phe Phe Ile Gly Ser Leu Glu Ala Ala Phe Gln Glu Ala
        370                    375                    380

Phe Tyr Val Lys Ala Arg Asp Arg Lys Leu Leu Ala Ile Tyr Leu His
385                    390                    395                    400

His Asp Glu Ser Val Leu Thr Asn Val Phe Cys Ser Gln Met Leu Cys
                405                    410                    415

Ala Glu Ser Ile Val Ser Tyr Leu Ser Gln Asn Phe Ile Thr Trp Ala
                420                    425                    430

Trp Asp Leu Thr Lys Asp Ser Asn Arg Ala Arg Phe Leu Thr Met Cys
        435                    440                    445

Asn Arg His Phe Gly Ser Val Val Ala Gln Thr Ile Arg Thr Gln Lys
        450                    455                    460

Thr Asp Gln Phe Pro Leu Phe Leu Ile Ile Met Gly Lys Arg Ser Ser
465                    470                    475                    480

Asn Glu Val Leu Asn Val Ile Gln Gly Asn Thr Thr Val Asp Glu Leu
                485                    490                    495

Met Met Arg Leu Met Ala Ala Met Glu Ile Phe Thr Ala Gln Gln Gln
        500                    505                    510

Glu Asp Ile Lys Asp Glu Asp Glu Arg Glu Ala Arg Glu Asn Val Lys
        515                    520                    525

Arg Glu Gln Asp Glu Ala Tyr Arg Leu Ser Leu Glu Ala Asp Arg Ala
        530                    535                    540

Lys Arg Glu Ala His Glu Arg Glu Met Ala Glu Gln Phe Arg Leu Glu
545                    550                    555                    560

Gln Ile Arg Lys Glu Gln Glu Glu Glu Arg Glu Ala Ile Arg Leu Ser
                565                    570                    575

Leu Glu Gln Ala Leu Pro Pro Glu Pro Lys Glu Glu Asn Ala Glu Pro
        580                    585                    590

Val Ser Lys Leu Arg Ile Arg Thr Pro Ser Gly Glu Phe Leu Glu Arg
        595                    600                    605

Arg Phe Leu Ala Ser Asn Lys Leu Gln Ile Val Phe Asp Phe Val Ala
```

5498

```
        610                 615                 620

Ser Lys Gly Phe Pro Trp Asp Glu Tyr Lys Leu Leu Ser Thr Phe Pro
625                 630                 635                 640

Arg Arg Asp Val Thr Gln Leu Asp Pro Asn Lys Ser Leu Leu Glu Val
                645                 650                 655

Lys Leu Phe Pro Gln Glu Thr Leu Phe Leu Glu Ala Lys Glu
                660                 665                 670
```

<210> 6273
<211> 496
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6273
```
Pro Thr Arg Xaa Pro Thr Arg Pro Ala Arg Gly Trp Glu Ala Ile Thr
  1               5                  10                  15

Tyr Leu Ala Leu Arg Lys Lys Thr Lys Ala Ser Met His Ser Phe Pro
                20                  25                  30

Pro Leu Leu Leu Leu Leu Phe Trp Gly Val Val Ser His Ser Phe Pro
            35                  40                  45

Ala Thr Leu Glu Thr Gln Glu Gln Asp Val Asp Leu Val Gln Lys Tyr
        50                  55                  60

Leu Glu Lys Tyr Tyr Asn Leu Lys Asn Asp Gly Arg Gln Val Glu Lys
  65                  70                  75                  80

Arg Arg Asn Ser Gly Pro Val Val Glu Lys Leu Lys Gln Met Gln Glu
                85                  90                  95

Phe Phe Gly Leu Lys Val Thr Gly Lys Pro Asp Ala Glu Thr Leu Lys
            100                 105                 110

Val Met Lys Gln Pro Arg Cys Gly Val Pro Asp Val Ala Gln Phe Val
            115                 120                 125

Leu Thr Glu Gly Asn Pro Arg Trp Glu Gln Thr His Leu Thr Tyr Arg
            130                 135                 140
```

5499

Ile Glu Asn Tyr Thr Pro Asp Leu Pro Arg Ala Asp Val Asp His Ala
145   150   155   160

Ile Glu Lys Ala Phe Gln Leu Trp Ser Asn Val Thr Pro Leu Thr Phe
            165   170   175

Thr Lys Val Ser Glu Gly Gln Ala Asp Ile Met Ile Ser Phe Val Arg
            180   185   190

Gly Asp His Arg Asp Asn Ser Pro Phe Asp Gly Pro Gly Gly Asn Leu
        195   200   205

Ala His Ala Phe Gln Pro Gly Pro Gly Ile Gly Gly Asp Ala His Phe
    210   215   220

Asp Glu Asp Glu Arg Trp Thr Asn Asn Phe Arg Glu Tyr Asn Leu His
225   230   235   240

Arg Val Ala Ala His Glu Leu Gly His Ser Leu Gly Leu Ser His Ser
            245   250   255

Thr Asp Ile Gly Ala Leu Met Tyr Pro Ser Tyr Thr Phe Ser Gly Asp
        260   265   270

Val Gln Leu Ala Gln Asp Asp Ile Asp Gly Ile Gln Ala Ile Tyr Gly
    275   280   285

Arg Ser Gln Asn Pro Val Gln Pro Ile Gly Pro Gln Thr Pro Lys Ala
    290   295   300

Cys Asp Ser Lys Leu Thr Phe Asp Ala Ile Thr Thr Ile Arg Gly Glu
305   310   315   320

Val Met Phe Phe Lys Asp Arg Phe Tyr Met Arg Thr Asn Pro Phe Tyr
            325   330   335

Pro Glu Val Glu Leu Asn Phe Ile Ser Val Phe Trp Pro Gln Leu Pro
        340   345   350

Asn Gly Leu Glu Ala Ala Tyr Glu Phe Ala Asp Arg Asp Glu Val Arg
        355   360   365

Phe Phe Lys Gly Asn Lys Tyr Trp Ala Val Gln Gly Gln Asn Val Leu
    370   375   380

His Gly Tyr Pro Lys Asp Ile Tyr Ser Ser Phe Gly Phe Pro Arg Thr
385   390   395   400

Val Lys His Ile Asp Ala Ala Leu Ser Glu Glu Asn Thr Gly Lys Thr
            405   410   415

5500

```
Tyr Phe Phe Val Ala Asn Lys Tyr Trp Arg Tyr Asp Glu Tyr Lys Arg
            420                 425             430

Ser Met Asp Pro Gly Tyr Pro Lys Met Ile Ala His Asp Phe Pro Gly
            435                 440             445

Ile Gly His Lys Val Asp Ala Val Phe Met Lys Asp Gly Phe Phe Tyr
    450                 455             460

Phe Phe His Gly Thr Arg Gln Tyr Lys Phe Asp Pro Lys Thr Lys Arg
465                 470             475                 480

Ile Leu Thr Leu Gln Lys Ala Asn Ser Trp Phe Asn Cys Arg Lys Asn
            485             490                 495
```

```
<210> 6274
<211> 95
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6274
```

5501

Arg Leu Pro Arg Gln Lys Ser Arg Xaa Lys Leu Ser Xaa Ser His Val
 1   5   10   15

Thr Gln Xaa Arg Leu Ile Lys Phe Phe Xaa Leu Phe Pro Ile Ile Phe
            20   25   30

Xaa Met Ser Lys Leu Thr Lys Arg Ser Lys Gly Phe Leu Gly Leu Leu
        35   40   45

Thr Ser Ser Val Glu Ile Leu Val Leu Cys Gly Gln Gly Lys Ala Lys
    50   55   60

Ala Phe Leu Phe Ser Leu Cys Tyr Leu Glu Asp Arg Lys Thr Ser Cys
65   70   75   80

Leu His Pro Leu Ala Val Cys Arg Ile Thr Leu Ser Leu Arg Tyr
            85   90   95

<210> 6275
<211> 135
<212> PRT
<213> Homo sapiens

<400> 6275
Arg Pro Pro Ile Ser Ser Ala Gly His Leu Pro Gly Val Cys Lys Val
 1   5   10   15

Ser Thr Asp Leu Leu Arg Glu Gly Ala Pro Ile Glu Pro Asp Pro Pro
            20   25   30

Val Ser His Trp Lys Pro Glu Ala Val Gln Tyr Tyr Glu Asp Gly Ala
        35   40   45

Arg Ile Glu Ala Ala Phe Arg Asn Tyr Ile His Arg Ala Asp Ala Arg
    50   55   60

Gln Glu Glu Asp Ser Tyr Glu Ile Phe Ile Cys His Ala Asn Val Ile
65   70   75   80

Arg Tyr Ile Val Cys Arg Ala Leu Gln Phe Pro Pro Glu Gly Trp Leu
            85   90   95

Arg Leu Ser Leu Asn Asn Gly Ser Ile Thr His Leu Val Ile Arg Pro
            100   105   110

Asn Gly Arg Val Ala Leu Arg Thr Leu Gly Asp Thr Gly Phe Met Pro
            115   120   125

Pro Asp Lys Ile Thr Arg Ser

5502

130   135

<210> 6276
<211> 159
<212> PRT
<213> Homo sapiens

<400> 6276
Thr Ser His Ala Arg Phe Gln Ala Leu His Ala Thr Gly Ser Val Leu
 1   5   10   15

Ala Ala Ser Ser Leu Ser Trp Asn Ser Ser Ser Gln Leu Leu Leu Pro
            20   25   30

Glu Phe Gln Gly Glu Pro Pro Ser Ala Pro Ser Glu Tyr Ala Gly Leu
        35   40   45

Val Val Arg Thr Val Leu Glu Pro Val Leu Gln Gly Leu Gln Gly Leu
    50   55   60

Pro Pro Gln Ala Gln Ala Pro Ala Leu Gly Gln Ala Leu Thr Ala Ile
65   70   75   80

Val Gly Ala Trp Leu Asp His Ile Leu Thr His Gly Ile Arg Phe Arg
            85   90   95

Ser Gly Val Lys Val Glu Val Ala Gly Gly Glu Trp Asn Trp Glu Lys
            100   105   110

Glu Gly Asp Lys Trp Glu Arg Gln Glu Gly Gln Val Ala Ile Leu Tyr
        115   120   125

Leu Cys Leu Gln Pro Ala Gly Ser Ala Ala Ala Gln Thr Arg Leu Trp
    130   135   140

Ser Gly Gln Gly Val Ala Gly Arg Gly Ala Val Glu Pro Val Pro
145   150   155

<210> 6277
<211> 87
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

5503

<400> 6277
Ala Gln Gly Ala Ala Trp Xaa Cys Gln Ser Pro Gly Pro Arg Ala Leu
1   5   10   15

Leu Glu Arg Arg Gln Thr Glu Ala Ala Gly Pro Ala Ser Arg Arg Arg
            20   .   25   30

Gly Glu Met Ser Asp Cys Tyr Thr Glu Leu Glu Lys Ala Val Ile Val
        35   40   45

Leu Val Glu Asn Phe Tyr Lys Tyr Val Ser Lys Tyr Ser Leu Val Lys
    50   55   60

Asn Lys Ile Ser Lys Ser Ser Phe Arg Glu Met Leu Gln Lys Glu Leu
65   70   75   80

Asn His Met Leu Ser His Cys
                85

<210> 6278
<211> 383
<212> PRT
<213> Homo sapiens

<400> 6278
His Ala Ser Ala His Ala Ser Gly Ala Leu Pro Gly Leu Thr Ala Thr
1   .   5   10   15

Pro Glu Ala Met Leu Arg Phe Leu Pro Asp Leu Ala Phe Ser Phe Leu
            20   25   30

Leu Ile Leu Ala Leu Gly Gln Ala Val Gln Phe Gln Glu Tyr Val Phe
        35   40   45

Leu Gln Phe Leu Gly Leu Asp Lys Ala Pro Ser Pro Gln Lys Phe Gln
    50   55   60

Pro Val Pro Tyr Ile Leu Lys Lys Ile Phe Gln Asp Arg Glu Ala Ala
65   70   75   80

Ala Thr Thr Gly Val Ser Arg Asp Leu Cys Tyr Val Lys Glu Leu Gly
            85   90   95

Val Arg Gly Asn Val Leu Arg Phe Leu Pro Asp Gln Gly Phe Phe Leu
            100   105   110

Tyr Pro Lys Lys Ile Ser Gln Ala Ser Ser Cys Leu Gln Lys Leu Leu
        115   120   125

5504

```
Tyr Phe Asn Leu Ser Ala Ile Lys Glu Arg Glu Gln Leu Thr Leu Ala
    130             135             140

Gln Leu Gly Leu Asp Leu Gly Pro Asn Ser Tyr Tyr Asn Leu Gly Pro
145             150             155                 160

Glu Leu Glu Leu Ala Leu Phe Leu Val Gln Glu Pro His Val Trp Gly
                165             170             175

Gln Thr Thr Pro Lys Pro Gly Lys Met Phe Val Leu Arg Ser Val Pro
            180             185             190

Trp Pro Gln Gly Ala Val His Phe Asn Leu Leu Asp Val Ala Lys Asp
            195             200             205

Trp Asn Asp Asn Pro Arg Lys Asn Phe Gly Leu Phe Leu Glu Ile Leu
    210             215             220

Val Lys Glu Asp Arg Asp Ser Gly Val Asn Phe Gln Pro Glu Asp Thr
225             230             235             240

Cys Ala Arg Leu Arg Cys Ser Leu His Ala Ser Leu Leu Val Val Thr
            245             250             255

Leu Asn Pro Asp Gln Cys His Pro Ser Arg Lys Arg Arg Ala Ala Ile
            260             265             270

Pro Val Pro Lys Leu Ser Cys Lys Asn Leu Cys His Arg His Gln Leu
            275             280             285

Phe Ile Asn Phe Arg Asp Leu Gly Trp His Lys Trp Ile Ile Ala Pro
    290             295             300

Lys Gly Phe Met Ala Asn Tyr Cys His Gly Glu Cys Pro Phe Ser Leu
305             310             315             320

Thr Ile Ser Leu Asn Ser Ser Asn Tyr Ala Phe Met Gln Ala Leu Met
            325             330             335

His Ala Val Asp Pro Glu Ile Pro Gln Ala Val Cys Ile Pro Thr Lys
            340             345             350

Leu Ser Pro Ile Ser Met Leu Tyr Gln Asp Asn Asn Asp Asn Val Ile
            355             360             365

Leu Arg His Tyr Glu Asp Met Val Val Asp Glu Cys Gly Cys Gly
    370             375             380
```

5505

```
<210> 6279
<211> 70
<212> PRT
<213> Homo sapiens

<400> 6279
Arg Gln Arg Arg Lys Gly Gly Gly Asn Asp Ser Arg Pro Lys Trp Pro
 1               5                   10                  15

His Leu Glu Asp Thr Ser Asp Asp Asn His Cys Tyr Val Cys Ala Ile
            20                  25                  30

Leu Phe Asn Ser Ala Val Tyr Val Val Asp Lys Leu Tyr Glu Ile Ser
            35                  40                  45

Ser Leu Ser Arg Tyr Leu Glu Val Leu Asp Val Phe Lys Ser Gly Ser
    50                  55                  60

Arg Ile Thr Leu Cys Lys
65                  70



<210> 6280
<211> 112
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (32)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6280
Gly Thr Thr Asn Ile Phe Tyr Val Val Asn Ser Ile Lys Leu Ala Ser
 1               5                   10                  15

Phe Gly Lys Lys Lys Lys Lys Lys Asn Ser Arg Gly Gly Pro Xaa
            20                  25                  30

Pro Asn Ser Pro Tyr Ser Glu Ser Xaa Tyr Asn Ser Leu Ala Val Val
            35                  40                  45

Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val Thr Gln Leu Asn Arg
    50                  55                  60
```

5506

```
Leu Ala Ala His Pro Pro Phe Ala Ser Trp Arg Asn Ser Glu Glu Ala
65              70              75              80

Arg Thr Asp Arg Pro Ser Gln Gln Leu Arg Ser Leu Asn Gly Glu Trp
                85              90              95

Gln Ile Val Ser Val Asn Ile Leu Leu Lys Phe Ala Leu Asn Phe Cys
                100             105             110
```

<210> 6281
<211> 64
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6281
```
Asn Leu Gly Thr Leu Lys Lys Glu Gln Asp Asn Ser Tyr Val Gln Gly
  1               5               10              15

Thr Arg Glu Ile Thr Ile Arg Ser Gly Cys Leu Xaa Ala Arg Gln Asn
          20              25              30

Arg Thr Ile Phe Leu Phe Phe Gln Lys Gln Ile Gly Glu Ile Ser Leu
          35              40              45

Asn Ser Phe Ser Gln Gln Arg Thr Ala Trp Arg Lys Arg Val Cys Ser
      50              55              60
```

<210> 6282
<211> 469
<212> PRT
<213> Homo sapiens

<400> 6282
```
Val Arg Gly Leu Ser Gly Ser Cys Pro Gly Cys Ser Pro Leu Glu Pro
  1               5               10              15
```

5507

Gly Ser Arg Gly Arg Gly Ala Ala Ala Trp Arg Ile Leu Arg Cys Arg
         20   25   30

Arg Leu Pro Glu Pro Ser Pro Phe Leu Thr Gln Pro Asn Leu Ala Gln
         35   40   45

Ser Gln Pro Pro Ala Pro Val Pro Val Thr Asp Pro Ser Val Thr Met
    50   55   60

His Pro Ala Val Phe Leu Ser Leu Pro Asp Leu Arg Cys Ser Leu Leu
65   70   75   80

Leu Leu Val Thr Trp Val Phe Thr Pro Val Thr Thr Glu Ile Thr Ser
              85   90   95

Leu Asp Thr Glu Asn Ile Asp Glu Ile Leu Asn Asn Ala Asp Val Ala
         100   105   110

Leu Val Asn Phe Tyr Ala Asp Trp Cys Arg Phe Ser Gln Met Leu His
         115   120   125

Pro Ile Phe Glu Glu Ala Ser Asp Val Ile Lys Glu Glu Phe Pro Asn
    130   135   140

Glu Asn Gln Val Val Phe Ala Arg Val Asp Cys Asp Gln His Ser Asp
145   150   155   160

Ile Ala Gln Arg Tyr Arg Ile Ser Lys Tyr Pro Thr Leu Lys Leu Phe
              165   170   175

Arg Asn Gly Met Met Met Lys Arg Glu Tyr Arg Gly Gln Arg Ser Val
         180   185   190

Lys Ala Leu Ala Asp Tyr Ile Arg Gln Gln Lys Ser Asp Pro Ile Gln
         195   200   205

Glu Ile Arg Asp Leu Ala Glu Ile Thr Thr Leu Asp Arg Ser Lys Arg
    210   215   220

Asn Ile Ile Gly Tyr Phe Glu Gln Lys Asp Ser Asp Asn Tyr Arg Val
225   230   235   240

Phe Glu Arg Val Ala Asn Ile Leu His Asp Asp Cys Ala Phe Leu Ser
              245   250   255

Ala Phe Gly Asp Val Ser Lys Pro Glu Arg Tyr Ser Gly Asp Asn Ile
         260   265   270

Ile Tyr Lys Pro Pro Gly His Ser Ala Pro Asp Met Val Tyr Leu Gly
         275   280   285

5508

```
Ala Met Thr Asn Phe Asp Val Thr Tyr Asn Trp Ile Gln Asp Lys Cys
    290             295             300
```

```
Val Pro Leu Val Arg Glu Ile Thr Phe Glu Asn Gly Glu Glu Leu Thr
305             310             315             320
```

```
Glu Glu Gly Leu Pro Phe Leu Ile Leu Phe His Met Lys Glu Asp Thr
            325             330             335
```

```
Glu Ser Leu Glu Ile Phe Gln Asn Glu Val Ala Arg Gln Leu Ile Ser
        340             345             350
```

```
Glu Lys Gly Thr Ile Asn Phe Leu His Ala Asp Cys Asp Lys Phe Arg
        355             360             365
```

```
His Pro Leu Leu His Ile Gln Lys Thr Pro Ala Asp Cys Pro Val Ile
    370             375             380
```

```
Ala Ile Asp Ser Phe Arg His Met Tyr Val Phe Gly Asp Phe Lys Asp
385             390             395             400
```

```
Val Leu Ile Pro Gly Lys Leu Lys Gln Phe Val Phe Asp Leu His Ser
            405             410             415
```

```
Gly Lys Leu His Arg Glu Phe His His Gly Pro Asp Pro Thr Asp Thr
        420             425             430
```

```
Ala Pro Gly Glu Gln Ala Gln Asp Val Ala Ser Ser Pro Pro Glu Ser
        435             440             445
```

```
Ser Phe Gln Lys Leu Ala Pro Ser Glu Tyr Arg Tyr Thr Leu Leu Arg
    450             455             460
```

```
Asp Arg Asp Glu Leu
465
```

```
<210> 6283
<211> 172
<212> PRT
<213> Homo sapiens
```

```
<400> 6283
Pro Arg Gly Ala Arg Gln Asp Thr Glu Ala Gly Ser Pro Trp Cys Ser
    1               5               10              15
```

```
Tyr Arg His Gly Pro Leu Ser Ser Arg Gln Asp Cys Pro Arg Ala Trp
            20              25              30
```

```
Gln Trp Arg Gln Pro His Arg Pro Gly His Leu Gln Asp Val Pro Pro
```

5509

```
        35                    40                    45
Pro Gly Ile His Leu Gln Arg Leu Ser Gln Pro Gly Pro Arg Glu Ala
    50                    55                    60

Leu Arg Glu Cys Pro Ser Gln Trp Pro Leu Ile Arg Gly Arg His Leu
65                    70                    75                    80

Cys Gln Leu Arg Gln Pro Gln Gly Asp Ser Gly Pro Ala Gly Leu Gly
                85                    90                    95

Arg Arg Asp Gly Pro Ser Ala Phe Cys His Pro Ala Arg Cys Cys His
            100                   105                   110

Cys Ser Arg Gln Cys Pro Ala Pro Gly Leu Cys Ala Gly Gly Val Leu
            115                   120                   125

Ala Ala Leu Pro Ser Ser Gly Leu Trp Glu Lys Gly Thr Met Asp Ala
    130                   135                   140

Val Gly His Gly His Asp Gly Ala Ser Arg Arg Val Thr Leu Gly Leu
145                   150                   155                   160

Gln Gly Asp Ile Lys Gly Gln Gly Cys Leu Leu Arg
                165                   170
```

<210> 6284
<211> 140
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (80)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6284
```
Pro Ser Pro Pro Ser Pro Pro Cys Asn Thr Thr Ala Leu Gly Ala Leu
    1                 5                   10                   15

Ser Thr Ser Ile Met Gly Pro Arg Pro His Ala Tyr Phe Gly Pro Glu
                20                   25                   30

Ala Ser Ala Ser Lys Phe Lys Leu Leu His Pro Asp Phe Ile Ser Tyr
            35                   40                   45

Leu Thr Glu Arg Phe Leu Lys Ser Lys Leu Ile Asn Thr His Phe Gly
    50                   55                   60
```

5510

Asp Leu Tyr Met Pro Ser Thr Gly Ala Leu Met Leu Leu Thr Ala Xaa
65   70   75   80

His Thr Cys Asp Gln Val Ser Ala Tyr Gly Phe Ile Thr Ser Asn Tyr
                85   90   95

Trp Lys Phe Ser Asp His Tyr Phe Glu Arg Lys Met Lys Pro Leu Ile
         100   105   110

Phe Tyr Ala Asn His Asp Leu Ser Leu Glu Ala Ala Leu Trp Arg Asp
         115   120   125

Leu His Lys Ala Gly Ile Leu Gln Leu Tyr Gln Arg
    130   135   140

<210> 6285
<211> 137
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (115)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (124)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (132)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (133)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6285
Ile Tyr Cys Ala Leu Leu Gly Cys Met Asp Asp Tyr Thr Thr Asp Ser
1   5   10   15

Arg Gly Asp Val Gly Thr Trp Val Arg Lys Ala Ala Met Thr Ser Leu
         20   25   30

Met Asp Leu Thr Leu Leu Leu Ala Arg Ser Gln Pro Glu Leu Ile Glu
         35   40   45

5511

```
Ala His Thr Cys Glu Arg Ile Met Cys Cys Val Ala Gln Gln Ala Ser
    50                  55              60

Glu Lys Ile Asp Arg Phe Arg Ala His Ala Ala Ser Val Phe Leu Thr
65              70              75                  80

Leu Leu His Phe Asp Ser Pro Pro Ile Pro His Val Pro His Arg Gly
                85              90              95

Glu Leu Glu Lys Leu Phe Pro Arg Ser Asp Val Ala Ser Val Asn Trp
            100             105             110

Ser Ala Xaa Ser Gln Ala Phe Pro Arg Ile Thr Xaa Pro Trp Val Ala
            115             120             125

Thr Tyr Gly Xaa Xaa Ser Trp Trp Gly
    130             135
```

<210> 6286
<211> 120
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6286
```
Arg Trp Gly Ser Lys Ser Pro Thr Ala Leu Pro Ile Phe Leu Glu Leu
    1           5               10              15

Thr Ala Gly Val Leu Ala Phe Val Phe Lys Asp Trp Ile Lys Asp Gln
                20              25              30

Leu Tyr Phe Phe Ile Xaa Asn Asn Ile Arg Ala Tyr Arg Asp Asp Ile
            35              40              45

Asp Leu Gln Asn Leu Ile Asp Phe Thr Gln Glu Tyr Trp Gln Cys Cys
    50              55              60

Gly Ala Phe Gly Ala Asp Asp Trp Asn Leu Asn Ile Tyr Phe Asn Cys
65              70              75                  80

Thr Asp Ser Asn Ala Ser Arg Glu Arg Cys Gly Val Pro Phe Ser Cys
                85              90              95

Cys Thr Lys Asp Pro Ala Glu Asp Val Ile Asn Thr Glu Cys Gly Tyr
```

5512

```
                    100                    105                    110

Gly Cys Gln Ala Lys Thr Arg Ser
         115                120



<210> 6287
<211> 153
<212> PRT
<213> Homo sapiens

<400> 6287
Ser Thr His Ala Ser Gly Ser Pro Ser Pro Ala Asn His Gly Glu Leu
  1               5                  10                  15

Gly Ser Val Pro Gly Gly Arg Arg Arg Gly Cys Gln Ala Pro Gly Thr
              20                  25                  30

Arg Gly Val Cys Arg Met Pro Val Thr Arg Leu His Glu Gly Arg Phe
           35                  40                  45

His Leu Arg His Arg His Arg His Gly Leu Trp Leu Ala Asp Val His
         50                  55                  60

Ser Glu Glu Val Ser Ile Pro Phe Ala Val Glu Pro Pro Ser Gly Arg
 65                  70                  75                  80

Gly Cys Arg Leu Cys Gly Gln Leu Arg Gly Asp Glu Ser Gly Val Gly
                 85                  90                  95

Glu Met Gln Gln Pro Leu Ala Leu Pro Gly Asp Arg Ala Ala Pro Gln
             100                 105                 110

Arg Gln Glu His Arg Ser Glu Lys Leu Gly Glu Leu Gln Gln Gly His
         115                 120                 125

Arg Gly Leu Gly Ala Gly Gly Val Trp Asn Thr Ala Phe Met Pro Pro
         130                 135                 140

Asp Pro Arg Pro Thr Leu Pro Thr Pro
145                 150



<210> 6288
<211> 108
<212> PRT
<213> Homo sapiens

<400> 6288
```

5513

```
Ala Lys Ile Ala Lys Glu Glu Ile Phe Gly Pro Val Met Gln Ile Leu
 1               5                   10                  15

Lys Phe Lys Thr Ile Glu Glu Val Val Gly Arg Ala Asn Asn Ser Thr
                20                  25                  30

Tyr Gly Leu Ala Ala Ala Val Phe Thr Lys Asp Leu Asp Lys Ala Asn
            35                  40                  45

Tyr Leu Ser Gln Ala Leu Gln Ala Gly Thr Val Trp Val Asn Cys Tyr
        50                  55                  60

Asp Val Phe Gly Ala Gln Ser Pro Phe Gly Gly Tyr Lys Met Ser Gly
 65                 70                  75                  80

Ser Gly Arg Glu Leu Gly Glu Tyr Gly Leu Gln Ala Tyr Thr Glu Val
                85                  90                  95

Lys Thr Val Thr Val Lys Val Pro Gln Lys Asn Ser
                100                 105
```

```
<210> 6289
<211> 341
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (225)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (231)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (291)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6289
Met Asn Thr Asn Trp Pro Ala Ser Val Gln Val Ser Val Asn Ala Thr
 1               5                   10                  15

Pro Leu Thr Ile Glu Arg Gly Asp Asn Lys Thr Ser His Lys Pro Leu
                20                  25                  30

Tyr Leu Lys His Val Cys Gln Pro Gly Arg Asn Thr Ile Gln Ile Thr
```

5514

```
            35                      40                      45

Val Thr Ala Cys Cys Cys Ser His Leu Phe Val Leu Gln Leu Val His
     50                  55                  60

Arg Pro Ser Val Arg Ser Val Leu Gln Gly Leu Leu Lys Lys Arg Leu
 65                  70                  75                  80

Leu Pro Ala Glu His Cys Ile Thr Lys Ile Lys Arg Asn Phe Ser Ser
                 85                  90                  95

Gly Thr Ile Pro Gly Thr Pro Gly Pro Asn Gly Glu Asp Gly Val Glu
                100                 105                 110

Gln Thr Ala Ile Lys Val Ser Leu Lys Cys Pro Ile Thr Phe Arg Arg
         115                 120                 125

Ile Gln Leu Pro Ala Arg Gly His Asp Cys Arg His Ile Gln Cys Phe
     130                 135                 140

Asp Leu Glu Ser Tyr Leu Gln Leu Asn Cys Glu Arg Gly Thr Trp Arg
145                 150                 155                 160

Cys Pro Val Cys Asn Lys Thr Ala Leu Leu Glu Gly Leu Glu Val Asp
                165                 170                 175

Gln Tyr Met Leu Gly Ile Leu Ile Tyr Ile Gln Asn Ser Asp Tyr Glu
                180                 185                 190

Glu Ile Thr Ile Asp Pro Thr Cys Ser Trp Lys Pro Val Pro Val Lys
         195                 200                 205

Pro Asp Met His Ile Lys Glu Glu Pro Asp Gly Pro Ala Leu Lys Arg
     210                 215                 220

Xaa Arg Thr Val Ser Pro Xaa His Val Leu Met Pro Ser Val Met Glu
225                 230                 235                 240

Met Ile Ala Ala Leu Gly Pro Gly Ala Ala Pro Phe Ala Pro Leu Gln
                245                 250                 255

Pro Pro Ser Val Pro Pro Pro Ala Ser Arg Gln Ser Leu Gly Gln Ala
                260                 265                 270

Ser Leu Gly Pro Thr Gly Glu Leu Ala Phe Ser Pro Ala Thr Gly Val
         275                 280                 285

Met Gly Xaa Pro Ser Met Ser Gly Ala Gly Glu Ala Pro Glu Pro Ala
     290                 295                 300

Leu Asp Leu Leu Pro Glu Leu Thr Asn Pro Asp Glu Leu Leu Ser Tyr
```

5515

```
305                    310                    315                    320

Leu Gly Pro Pro Asp Leu Pro Thr Asn Asn Asn Asp Asp Leu Leu Ser
              325                    330                    335

Leu Phe Glu Asn Asn
          340



<210> 6290
<211> 235
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (65)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (156)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (214)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (229)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (233)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6290
```

5516

```
Ala Val Leu Cys Pro Ser Xaa Pro Cys Gln Xaa Pro Thr Gln Pro Pro
 1               5               10              15

Gly Ala Cys Cys Pro Ser Cys Asp Ser Cys Thr Tyr His Ser Gln Val
              20              25              30

Tyr Ala Asn Gly Gln Asn Phe Thr Asp Ala Asp Ser Pro Cys His Ala
          35              40              45

Cys His Cys Gln Asp Gly Thr Val Thr Cys Ser Leu Val Asp Cys Pro
      50              55              60

Xaa Thr Thr Cys Ala Arg Pro Gln Ser Gly Pro Gly Gln Cys Cys Pro
65              70              75              80

Arg Cys Pro Asp Cys Ile Leu Glu Glu Glu Val Phe Val Asp Gly Glu
              85              90              95

Ser Phe Ser His Pro Arg Asp Pro Cys Gln Glu Cys Arg Cys Gln Glu
          100             105             110

Gly His Ala His Cys Gln Pro Arg Pro Cys Pro Arg Ala Pro Cys Ala
      115             120             125

His Pro Leu Pro Gly Thr Cys Cys Pro Asn Asp Cys Ser Gly Cys Ala
    130             135             140

Phe Gly Gly Lys Glu Tyr Pro Ser Gly Ala Asp Xaa Pro His Pro Ser
145             150             155             160

Asp Pro Cys Arg Leu Cys Arg Cys Leu Ser Gly Asn Val Gln Cys Leu
              165             170             175

Ala Arg Arg Cys Val Pro Leu Pro Cys Pro Glu Pro Val Leu Leu Pro
          180             185             190

Gly Glu Cys Cys Pro Glu Trp Pro Lys Pro Pro Ser Pro Arg Pro Ala
          195             200             205

Ala His Gly Pro Gly Xaa Gly Pro Thr Ala Arg Pro Pro Arg Lys Tyr
    210             215             220

Leu Phe Ser Pro Xaa Pro Gly Asp Xaa Leu Gly
225             230             235
```

```
<210> 6291
<211> 55
<212> PRT
<213> Homo sapiens
```

5517

<220>
<221> SITE
<222> (50)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6291
Ala Asp Asn Asn Phe Thr Gln Glu Thr Ala Met Thr Met Ile Thr Pro
 1   5   10   15

Ser Ser Lys Leu Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr
            20   25   30

Ala Val Ala Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn
        35   40   45

Ser Xaa Arg Ala Lys Leu Gln
    50   55

<210> 6292
<211> 421
<212> PRT
<213> Homo sapiens

<400> 6292
Val Gly Asp Cys Cys Val Pro Tyr Leu Asp Pro Glu Gly Thr Ser Leu
 1   5   10   15

Leu Gly Trp Leu Ser Val Ser Leu Leu Ser Ser Gly Glu Ile Thr Ala
            20   25   30

Ser Ser Ala Pro Arg Met Glu Pro Pro Gly Arg Arg Glu Cys Pro Phe
        35   40   45

Pro Ser Trp Arg Phe Pro Gly Leu Leu Leu Ala Ala Met Val Leu Leu
    50   55   60

Leu Tyr Ser Phe Ser Asp Ala Cys Glu Glu Pro Pro Thr Phe Glu Ala
65   70   75   80

Met Glu Leu Ile Gly Lys Pro Lys Pro Tyr Tyr Glu Ile Gly Glu Arg
                85   90   95

Val Asp Tyr Lys Cys Lys Lys Gly Tyr Phe Tyr Ile Pro Pro Leu Ala
            100   105   110

Thr His Thr Ile Cys Asp Arg Asn His Thr Trp Leu Pro Val Ser Asp
            115   120   125

5518

```
Asp Ala Cys Tyr Arg Glu Thr Cys Pro Tyr Ile Arg Asp Pro Leu Asn
    130                 135                 140

Gly Gln Ala Val Pro Ala Asn Gly Thr Tyr Glu Phe Gly Tyr Gln Met
145                 150                 155                 160

His Phe Ile Cys Asn Glu Gly Tyr Tyr Leu Ile Gly Glu Glu Ile Leu
                165                 170                 175

Tyr Cys Glu Leu Lys Gly Ser Val Ala Ile Trp Ser Gly Lys Pro Pro
            180                 185                 190

Ile Cys Glu Lys Val Leu Cys Thr Pro Pro Pro Lys Ile Lys Asn Gly
            195                 200                 205

Lys His Thr Phe Ser Glu Val Glu Val Phe Glu Tyr Leu Asp Ala Val
    210                 215                 220

Thr Tyr Ser Cys Asp Pro Ala Pro Gly Pro Asp Pro Phe Ser Leu Ile
225                 230                 235                 240

Gly Glu Ser Thr Ile Tyr Cys Gly Asp Asn Ser Val Trp Ser Arg Ala
            245                 250                 255

Ala Pro Glu Cys Lys Val Val Lys Cys Arg Phe Pro Val Val Glu Asn
            260                 265                 270

Gly Lys Gln Ile Ser Gly Phe Gly Lys Lys Phe Tyr Tyr Lys Ala Thr
            275                 280                 285

Val Met Phe Glu Cys Asp Lys Gly Phe Tyr Leu Asp Gly Ser Asp Thr
    290                 295                 300

Ile Val Cys Asp Ser Asn Ser Thr Trp Asp Pro Pro Val Pro Lys Cys
305                 310                 315                 320

Leu Lys Val Ser Thr Ser Ser Thr Thr Lys Ser Pro Ala Ser Ser Ala
            325                 330                 335

Ser Gly Pro Arg Pro Thr Tyr Lys Pro Pro Val Ser Asn Tyr Pro Gly
            340                 345                 350

Tyr Pro Lys Pro Glu Glu Gly Ile Leu Asp Ser Leu Asp Val Trp Val
            355                 360                 365

Ile Ala Val Ile Val Ile Ala Ile Val Val Gly Val Ala Val Ile Cys
    370                 375                 380

Val Val Pro Tyr Arg Tyr Leu Gln Arg Arg Lys Lys Lys Gly Lys Ala
385                 390                 395                 400
```

5519

Asp Gly Gly Ala Glu Tyr Ala Thr Tyr Gln Thr Lys Ser Thr Thr Pro
                405   410   415

Ala Glu Gln Arg Gly
                420

<210> 6293
<211> 80
<212> PRT
<213> Homo sapiens

<400> 6293
Gly His Cys Gln Gly Leu Lys Pro Val Glu Gln Pro Leu Ala Met Ser
 1   5   10   15

Pro Leu Gln Tyr Ser Phe Met Ala Val Ile His Phe Ala Gly Leu Lys
            20   25   30

Ala Val Gly Glu Ser Val Gln Lys Pro Leu Asp Tyr Tyr Arg Val Asn
            35   40   45

Leu Thr Gly Thr Ile Gln Leu Leu Glu Ile Met Lys Ala His Gly Val
    50   55   60

Lys Asn Leu Val Phe Ser Ser Ser Ala Thr Val Tyr Gly Asn Pro Gln
 65   70   75   80

<210> 6294
<211> 78
<212> PRT
<213> Homo sapiens

<400> 6294
Glu Ala Asp Cys Val Cys Val Cys Val Cys Val Cys Val Cys Val Cys
 1   5   10   15

Val Cys Ile Gln Thr His Ile Phe Leu Lys Cys Lys Tyr Ser Leu Phe
            20   25   30

Lys Lys Ile Ile Ile Thr Ala Lys Gln Ile Thr Ser Asn Ser Phe Ile
            35   40   45

Leu Ile Tyr Pro Val Phe Arg Phe Ser Arg Leu Ala Pro Asn Phe Phe
    50   55   60

5520

Thr Asp Tyr Leu Asn Leu Ile Gln Phe Met Tyr Cys Asn Val
65   70   75

<210> 6295
<211> 284
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6295
Phe Ser Val Val Asp Xaa Arg Lys Phe Ser Ala Val Ser Gly Glu Thr
 1   5   10   15

Arg Gly Leu Arg Val Ser Leu Ser Val Phe Gln Ser Pro Gly Ala Val
            20   25   30

Val Gln Gly Leu Gly Leu Val Met Ala Ser Pro Ser Arg Arg Leu Gln
            35   40   45

Thr Lys Pro Val Ile Thr Cys Phe Lys Ser Val Leu Leu Ile Tyr Thr
    50   55   60

Phe Ile Phe Trp Ile Thr Gly Val Ile Leu Leu Ala Val Gly Ile Trp
 65   70   75   80

Gly Lys Val Ser Leu Glu Asn Tyr Phe Ser Leu Leu Asn Glu Lys Ala
            85   90   95

Thr Asn Val Pro Phe Val Leu Ile Ala Thr Gly Thr Val Ile Ile Leu
            100   105   110

Leu Gly Thr Phe Gly Cys Phe Ala Thr Cys Arg Ala Ser Ala Trp Met
            115   120   125

Leu Lys Leu Tyr Ala Met Phe Leu Thr Leu Val Phe Leu Val Glu Leu
    130   135   140

Val Ala Ala Ile Val Gly Phe Val Phe Arg His Glu Ile Lys Asn Ser
145   150   155   160

Phe Lys Asn Asn Tyr Glu Lys Ala Leu Lys Gln Tyr Asn Ser Thr Gly
            165   170   175

Asp Tyr Arg Ser His Ala Val Asp Lys Ile Gln Asn Thr Leu His Cys

5521

```
                 180                    185                      190
Cys Gly Val Thr Asp Tyr Arg Asp Trp Thr Asp Thr Asn Tyr Tyr Ser
        195                 200                 205

Glu Lys Gly Phe Pro Lys Ser Cys Cys Lys Leu Glu Asp Cys Thr Pro
        210                 215                 220

Gln Arg Asp Ala Asp Lys Val Asn Asn Glu Gly Cys Phe Ile Lys Val
225                 230                 235                 240

Met Thr Ile Ile Glu Ser Glu Met Gly Val Val Ala Gly Ile Ser Phe
                245                 250                 255

Gly Val Ala Cys Phe Gln Leu Ile Gly Ile Phe Leu Ala Tyr Cys Leu
                260                 265                 270

Ser Arg Ala Ile Thr Asn Asn Gln Tyr Glu Ile Val
        275                 280
```

<210> 6296
<211> 368
<212> PRT
<213> Homo sapiens

<400> 6296
```
Lys Thr Leu Ser Gly Gly Gly Arg Arg Gln Lys Gly Trp Asp Val Ser
  1               5                  10                  15

Phe Lys Phe Pro Gly His Ser Leu Ile Val Leu Tyr Val Pro Ala Asp
                20                  25                  30

Cys Gln Cys Asp Leu Thr Leu Ser Ser His Pro Ser Ser Val Pro Ala
            35                  40                  45

Met Ser Ser Cys Asn Phe Thr His Ala Thr Phe Val Leu Ile Gly Ile
        50                  55                  60

Pro Gly Leu Glu Lys Ala His Phe Trp Val Gly Phe Pro Leu Leu Ser
65                  70                  75                  80

Met Tyr Val Val Ala Met Phe Gly Asn Cys Ile Val Val Phe Ile Val
                85                  90                  95

Arg Thr Glu Arg Ser Leu His Ala Pro Met Tyr Leu Phe Leu Cys Met
            100                 105                 110

Leu Ala Ala Ile Asp Leu Ala Leu Ser Thr Ser Thr Met Pro Lys Ile
        115                 120                 125
```

5522

```
Leu Ala Leu Phe Trp Phe Asp Ser Arg Glu Ile Ser Phe Glu Ala Cys
    130             135             140
```

```
Leu Thr Gln Met Phe Phe Ile His Ala Leu Ser Ala Ile Glu Ser Thr
145             150             155             160
```

```
Ile Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile Cys His Pro
            165             170             175
```

```
Leu Arg His Ala Ala Val Leu Asn Asn Thr Val Thr Ala Gln Ile Gly
            180             185             190
```

```
Ile Val Ala Val Val Arg Gly Ser Leu Phe Phe Phe Pro Leu Pro Leu
            195             200             205
```

```
Leu Ile Lys Arg Leu Ala Phe Cys His Ser Asn Val Leu Ser His Ser
    210             215             220
```

```
Tyr Cys Val His Gln Asp Val Met Lys Leu Ala Tyr Ala Asp Thr Leu
225             230             235             240
```

```
Pro Asn Val Val Tyr Gly Leu Thr Ala Ile Leu Leu Val Met Gly Val
            245             250             255
```

```
Asp Val Met Phe Ile Ser Leu Ser Tyr Phe Leu Ile Ile Arg Thr Val
            260             265             270
```

```
Leu Gln Leu Pro Ser Lys Ser Glu Arg Ala Lys Ala Phe Gly Thr Cys
    275             280             285
```

```
Val Ser His Ile Gly Val Val Leu Ala Phe Tyr Val Pro Leu Ile Gly
    290             295             300
```

```
Leu Ser Val Val His Arg Phe Gly Asn Ser Leu His Pro Ile Val Arg
305             310             315             320
```

```
Val Val Met Gly Asp Ile Tyr Leu Leu Leu Pro Pro Val Ile Asn Pro
            325             330             335
```

```
Ile Ile Tyr Gly Ala Lys Thr Lys Gln Ile Arg Thr Arg Val Leu Ala
            340             345             350
```

```
Met Phe Lys Ile Ser Cys Asp Lys Asp Leu Gln Ala Val Gly Gly Lys
    355             360             365
```

5523

<210> 6297
<211> 335
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6297
Thr Ser Ser Ile Ser Tyr Leu Tyr Asn Lys Leu Pro Arg Arg Arg Ala
 1   5   10   15

Asp Leu Phe Gly Glu Glu Leu Glu Arg Leu Leu Lys Xaa Lys Tyr Glu
            20   25   30

Gly His Trp Tyr Pro Glu Lys Pro Leu Lys Gly Ser Gly Phe Arg Cys
        35   40   45

Val His Ile Gly Glu Met Val Asp Pro Val Val Glu Leu Ala Ala Lys
    50   55   60

Arg Ser Gly Leu Ala Val Glu Asp Val Arg Ala Asn Val Pro Glu Glu
65   70   75   80

Leu Ser Val Trp Ile Asp Pro Phe Glu Val Ser Tyr Gln Ile Gly Glu
            85   90   95

Lys Gly Ala Val Lys Val Leu Tyr Leu Asp Asp Ser Glu Gly Cys Gly
            100   105   110

Ala Pro Glu Leu Asp Lys Glu Ile Lys Ser Ser Phe Asn Pro Asp Ala
        115   120   125

Gln Val Phe Val Pro Ile Gly Ser Gln Asp Ser Ser Leu Ser Asn Ser
    130   135   140

Pro Ser Pro Ser Phe Gly Gln Ser Pro Ser Pro Thr Phe Ile Pro Arg
145   150   155   160

Ser Ala Gln Pro Ile Thr Phe Thr Thr Ala Ser Phe Ala Ala Thr Lys
                165   170   175

Phe Gly Ser Thr Lys Met Lys Lys Gly Gly Gly Ala Ala Ser Gly Gly
            180   185   190

Gly Val Ala Ser Ser Gly Ala Gly Gly Gln Gln Pro Pro Gln Gln Pro
        195   200   205

Arg Met Ala Arg Ser Pro Thr Asn Ser Leu Leu Lys His Lys Ser Leu

5524

| 210 | | 215 | | 220 |

Ser Leu Ser Met His Ser Leu Asn Phe Ile Thr Ala Asn Pro Ala Pro
225   230   235   240

Gln Ser Gln Leu Ser Pro Asn Ala Lys Glu Phe Val Tyr Asn Gly Gly
                245   250   255

Gly Ser Pro Ser Leu Phe Phe Asp Ala Ala Asp Gly Gln Gly Ser Gly
                260   265   270

Thr Pro Gly Pro Phe Gly Gly Ser Gly Ala Gly Thr Cys Asn Ser Ser
                275   280   285

Ser Phe Asp Met Ala Gln Val Phe Gly Gly Gly Ala Asn Ser Leu Phe
                290   295   300

Leu Glu Lys Thr Pro Phe Val Glu Gly Leu Ser Tyr Asn Leu Asn Thr
305   310   315   320

Met Gln Tyr Pro Ser Gln Gln Phe Gln Pro Val Val Leu Ala Asn
                325   330   335

<210> 6298
<211> 461
<212> PRT
<213> Homo sapiens

<400> 6298
Gln Ser Leu Asn Asn Tyr Leu Val Ile Pro Thr Ser Ala Pro Trp Cys
  1   5   10   15

Glu Gln Leu Leu Asn Met Asn Tyr Ser Leu His Leu Ala Phe Val Cys
                20   25   30

Leu Ser Leu Phe Thr Glu Arg Met Cys Ile Gln Gly Ser Gln Phe Asn
                35   40   45

Val Glu Val Gly Arg Ser Asp Lys Leu Ser Leu Pro Gly Phe Glu Asn
                50   55   60

Leu Thr Ala Gly Tyr Asn Lys Phe Leu Arg Pro Asn Phe Gly Gly Glu
65   70   75   80

Pro Val Gln Ile Ala Leu Thr Leu Asp Ile Ala Ser Ile Ser Ser Ile
                85   90   95

Ser Glu Ser Asn Met Asp Tyr Thr Ala Thr Ile Tyr Leu Arg Gln Arg
                100   105   110

5525

Trp Met Asp Gln Arg Leu Val Phe Glu Gly Asn Lys Ser Phe Thr Leu
        115   120   125

Asp Ala Arg Leu Val Glu Phe Leu Trp Val Pro Asp Thr Tyr Ile Val
        130   135   140

Glu Ser Lys Lys Ser Phe Leu His Glu Val Thr Val Gly Asn Arg Leu
145   150   155   160

Ile Arg Leu Phe Ser Asn Gly Thr Val Leu Tyr Ala Leu Arg Ile Thr
                165   170   175

Thr Thr Val Ala Cys Asn Met Asp Leu Ser Lys Tyr Pro Met Asp Thr
            180   185   190

Gln Thr Cys Lys Leu Gln Leu Glu Ser Trp Gly Tyr Asp Gly Asn Asp
        195   200   205

Val Glu Phe Thr Trp Leu Arg Gly Asn Asp Ser Val Arg Gly Leu Glu
    210   215   220

His Leu Arg Leu Ala Gln Tyr Thr Ile Glu Arg Tyr Phe Thr Leu Val
225   230   235   240

Thr Arg Ser Gln Gln Glu Thr Gly Asn Tyr Thr Arg Leu Val Leu Gln
            245   250   255

Phe Glu Leu Arg Arg Asn Val Leu Tyr Phe Ile Leu Glu Thr Tyr Val
        260   265   270

Pro Ser Thr Phe Leu Val Val Leu Ser Trp Val Ser Phe Trp Ile Ser
        275   280   285

Leu Asp Ser Val Pro Ala Arg Thr Cys Ile Gly Val Thr Thr Val Leu
    290   295   300

Ser Met Thr Thr Leu Met Ile Gly Ser Arg Thr Ser Leu Pro Asn Thr
305   310   315   320

Asn Cys Phe Ile Lys Ala Ile Asp Val Tyr Leu Gly Ile Cys Phe Ser
                325   330   335

Phe Val Phe Gly Ala Leu Leu Glu Tyr Ala Val Ala His Tyr Ser Ser
            340   345   350

Leu Gln Gln Met Ala Ala Lys Asp Arg Gly Thr Thr Lys Glu Val Glu
        355   360   365

Glu Val Ser Ile Thr Asn Ile Ile Asn Ser Ser Ile Ser Ser Phe Lys
    370   375   380

5526

```
Arg Lys Ile Ser Phe Ala Ser Ile Glu Ile Ser Ser Asp Asn Val Asp
385             390         395             400

Tyr Ser Asp Leu Thr Met Lys Thr Ser Asp Lys Phe Lys Phe Val Phe
                405         410             415

Arg Glu Lys Met Gly Arg Ile Val Asp Tyr Phe Thr Ile Gln Asn Pro
            420         425             430

Ser Asn Val Asp His Tyr Ser Lys Leu Leu Phe Pro Leu Ile Phe Met
            435         440             445

Leu Ala Asn Val Phe Tyr Trp Ala Tyr Tyr Met Tyr Phe
    450             455             460
```

<210> 6299
<211> 403
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (56)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (244)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6299
```
Ala Gly Trp Ser Pro Glu Ser Leu Ala Tyr Trp Pro Xaa Arg Ser Asp
  1             5               10              15

Thr Glu Val Pro Pro Leu Asp Leu Gly Trp Thr Asp Thr Gly Phe Tyr
            20              25              30

Arg Gly Val Ser Xaa Val Thr Leu Phe Thr His Pro Pro Lys Asp Glu
```

5527

```
            35                      40                      45

Lys Ala Pro His Leu Lys Gln Xaa Val Arg Gln Met Ile Gln Gln Ala
    50                  55                  60

Gln Lys Val Ile Ala Val Val Met Asp Leu Phe Thr Asp Gly Asp Ile
65                  70                  75                      80

Phe Gln Asp Ile Val Asp Ala Ala Cys Lys Arg Arg Val Pro Val Tyr
                85                  90                      95

Ile Ile Leu Asp Glu Ala Gly Val Lys Tyr Phe Leu Glu Met Cys Gln
            100                 105                 110

Asp Leu Gln Leu Thr Asp Phe Arg Ile Arg Asn Ile Arg Val Arg Ser
        115                 120                 125

Val Thr Gly Val Gly Phe Tyr Met Pro Met Gly Arg Ile Lys Gly Thr
    130                 135                 140

Leu Ser Ser Arg Phe Leu Met Val Asp Gly Asp Lys Val Ala Thr Gly
145                 150                 155                 160

Ser Tyr Arg Phe Thr Trp Ser Ser Ser His Val Asp Arg Asn Leu Leu
            165                 170                 175

Leu Leu Leu Thr Gly Gln Asn Val Glu Pro Phe Asp Thr Glu Phe Arg
            180                 185                 190

Glu Leu Tyr Ala Ile Ser Glu Glu Val Asp Leu Tyr Arg Gln Leu Ser
            195                 200                 205

Leu Ala Gly Arg Val Gly Leu His Tyr Ser Ser Thr Val Ala Arg Lys
    210                 215                 220

Leu Ile Asn Pro Lys Tyr Ala Leu Val Ser Gly Cys Arg His Pro Pro
225                 230                 235                 240

Gly Glu Met Xaa Arg Trp Ala Ala Arg Gln Gln Arg Glu Ala Gly Gly
            245                 250                 255

Asn Pro Glu Gly Gln Glu Glu Gly Ala Ser Gly Gly Glu Ser Ala Trp
            260                 265                 270

Arg Leu Glu Ser Phe Leu Lys Asp Leu Val Thr Val Glu Gln Val Leu
        275                 280                 285

Pro Pro Val Glu Pro Ile Pro Leu Gly Glu Leu Ser Gln Lys Asp Gly
    290                 295                 300

Arg Met Val Ser His Met His Arg Asp Leu Lys Pro Lys Ser Arg Glu
```

5528

```
     305                  310                  315                  320

Ala Pro Ser Arg Asn Gly Met Gly Glu Ala Ala Arg Gly Glu Ala Ala
                325                  330                  335

Pro Ala Gly Arg Phe Ser Ser Arg Leu Phe Ser Arg Arg Ala Lys Arg
                340                  345                  350

Pro Ala Ala Pro Asn Gly Met Ala Ser Ser Val Ser Thr Glu Thr Ser
                355                  360                  365

Glu Val Glu Phe Leu Thr Gly Lys Arg Pro Asn Glu Asn Ser Ser Ala
        370                  375                  380

Asp Ile Ser Gly Lys Thr Ser Pro Ser Ser Ala Lys Pro Ser Asn Cys
385                  390                  395                  400

Val Ile Ser
```

```
<210> 6300
<211> 775
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6300
Gln Xaa Xaa Tyr Xaa Xaa Pro Gly Arg Pro Thr Arg Pro Gly Ser Ser
  1               5                  10                  15
```

5529

```
Gly Ala Lys Met Ser Phe Val Ala Gly Val Ile Arg Arg Leu Asp Glu
            20              25                  30

Thr Val Val Asn Arg Ile Ala Ala Gly Glu Val Ile Gln Arg Pro Ala
            35              40                  45

Asn Ala Ile Lys Glu Met Ile Glu Asn Cys Leu Asp Ala Lys Ser Thr
        50              55                  60

Ser Ile Gln Val Ile Val Lys Glu Gly Gly Leu Lys Leu Ile Gln Ile
65              70                  75                      80

Gln Asp Asn Gly Thr Gly Ile Arg Lys Glu Asp Leu Asp Ile Val Cys
                85                  90                  95

Glu Arg Phe Thr Thr Ser Lys Leu Gln Ser Phe Glu Asp Leu Ala Ser
            100             105                 110

Ile Ser Thr Tyr Gly Phe Arg Gly Glu Ala Leu Ala Ser Ile Ser His
            115             120                 125

Val Ala His Val Thr Ile Thr Thr Lys Thr Ala Asp Gly Lys Cys Ala
        130             135                 140

Tyr Arg Ala Ser Tyr Ser Asp Gly Lys Leu Lys Ala Pro Pro Lys Pro
145             150                 155                     160

Cys Ala Gly Asn Gln Gly Thr Gln Ile Thr Val Glu Asp Leu Phe Tyr
                165                 170                 175

Asn Ile Ala Thr Arg Arg Lys Ala Leu Lys Asn Pro Ser Glu Glu Tyr
            180             185                 190

Gly Lys Ile Leu Glu Val Val Gly Arg Tyr Ser Val His Asn Ala Gly
            195             200                 205

Ile Ser Phe Ser Val Lys Lys Gln Gly Glu Thr Val Ala Asp Val Arg
        210             215                 220

Thr Leu Pro Asn Ala Ser Thr Val Asp Asn Ile Arg Ser Ile Phe Gly
225             230                 235                     240

Asn Ala Val Ser Arg Glu Leu Ile Glu Ile Gly Cys Glu Asp Lys Thr
                245                 250                 255

Leu Ala Phe Lys Met Asn Gly Tyr Ile Ser Asn Ala Asn Tyr Ser Val
            260             265                 270

Lys Lys Cys Ile Phe Leu Leu Phe Ile Asn His Arg Leu Val Glu Ser
            275             280                 285
```

5530

Thr Ser Leu Arg Lys Ala Ile Glu Thr Val Tyr Ala Ala Tyr Leu Pro
290   295   300

Lys Asn Thr His Pro Phe Leu Tyr Leu Ser Leu Glu Ile Ser Pro Gln
305   310   315   320

Asn Val Asp Val Asn Val His Pro Thr Lys His Glu Val His Phe Leu
                325   330   335

His Glu Glu Ser Ile Leu Glu Arg Val Gln Gln His Ile Glu Ser Lys
            340   345   350

Leu Leu Gly Ser Asn Ser Ser Arg Met Tyr Phe Thr Gln Thr Leu Leu
            355   360   365

Pro Gly Leu Ala Gly Pro Ser Gly Glu Met Val Lys Ser Thr Thr Ser
    370   375   380

Leu Thr Ser Ser Ser Thr Ser Gly Ser Ser Asp Lys Val Tyr Ala His
385   390   395   400

Gln Met Val Arg Thr Asp Ser Arg Glu Gln Lys Leu Asp Ala Phe Leu
            405   410   415

Gln Pro Leu Ser Lys Pro Leu Ser Ser Gln Pro Gln Ala Ile Val Thr
            420   425   430

Glu Asp Lys Thr Asp Ile Ser Ser Gly Arg Ala Arg Gln Gln Asp Glu
            435   440   445

Glu Met Leu Glu Leu Pro Ala Pro Ala Glu Val Ala Ala Lys Asn Gln
    450   455   460

Ser Leu Glu Gly Asp Thr Thr Lys Gly Thr Ser Glu Met Ser Glu Lys
465   470   475   480

Arg Gly Pro Thr Ser Ser Asn Pro Arg Lys Arg His Arg Glu Asp Ser
            485   490   495

Asp Val Glu Met Val Glu Asp Asp Ser Arg Lys Glu Met Thr Ala Ala
            500   505   510

Cys Thr Pro Arg Arg Arg Ile Ile Asn Leu Thr Ser Val Leu Ser Leu
            515   520   525

Gln Glu Glu Ile Asn Glu Gln Gly His Glu Val Leu Arg Glu Met Leu
    530   535   540

His Asn His Ser Phe Val Gly Cys Val Asn Pro Gln Trp Ala Leu Ala
545   550   555   560

5531

Gln His Gln Thr Lys Leu Tyr Leu Leu Asn Thr Thr Lys Leu Ser Glu
                565   570   575

Glu Leu Phe Tyr Gln Ile Leu Ile Tyr Asp Phe Ala Asn Phe Gly Val
            580   585   590

Leu Arg Leu Ser Glu Pro Ala Pro Leu Phe Asp Leu Ala Met Leu Ala
        595   600   605

Leu Asp Ser Pro Glu Ser Gly Trp Thr Glu Glu Asp Gly Pro Lys Glu
    610   615   620

Gly Leu Ala Glu Tyr Ile Val Glu Phe Leu Lys Lys Lys Ala Glu Met
625   630   635   640

Leu Ala Asp Tyr Phe Ser Leu Glu Ile Asp Glu Glu Gly Asn Leu Ile
            645   650   655

Gly Leu Pro Leu Leu Ile Asp Asn Tyr Val Pro Pro Leu Glu Gly Leu
            660   665   670

Pro Ile Phe Ile Leu Arg Leu Ala Thr Glu Val Asn Trp Asp Glu Glu
        675   680   685

Lys Glu Cys Phe Glu Ser Leu Ser Lys Glu Cys Ala Met Phe Tyr Ser
    690   695   700

Ile Arg Lys Gln Tyr Ile Ser Glu Glu Ser Thr Leu Ser Gly Gln Gln
705   710   715   720

Ser Glu Val Pro Gly Ser Ile Pro Asn Ser Trp Lys Trp Thr Val Glu
            725   730   735

His Ile Val Tyr Lys Ala Leu Arg Ser His Ile Leu Pro Pro Lys His
            740   745   750

Phe Thr Glu Asp Gly Asn Ile Leu Gln Leu Ala Asn Leu Pro Asp Leu
            755   760   765

Tyr Lys Val Phe Glu Arg Cys
    770   775

<210> 6301
<211> 159
<212> PRT
<213> Homo sapiens

<220>
<221> SITE

5532

<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (108)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (140)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (149)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6301
Ala Gln Leu Val Phe Pro Ser Ser Cys Leu Ala Phe Xaa Ser Pro Leu
  1   5   10   15

Ser Val Phe Lys Arg Phe Lys Glu Thr Thr Arg Pro Phe Ser Asn Glu
              20   25   30

Cys Leu Gly Thr Thr Arg Pro Val Val Pro Ile Asp Ser Ser Asp Phe
          35   40   45

Ala Leu Asp Ile Arg Met Pro Gly Val Thr Pro Lys Gln Ser Asp Thr
      50   55   60

Tyr Phe Cys Met Ser Met Arg Ile Pro Val Asp Glu Glu Ala Phe Val
 65   70   75   80

Ile Asp Phe Lys Pro Arg Ala Ser Met Asp Thr Val His His Met Leu
              85   90   95

Leu Phe Gly Cys Asn Met Pro Ser Ser Thr Gly Xaa Tyr Trp Phe Cys
              100   105   110

Asp Glu Gly Thr Cys Thr Asp Lys Ala Asn Asp Ser Val Cys Leu Gly
          115   120   125

Glu Lys Cys Phe Pro Leu Pro Gly Leu Pro Lys Xaa Cys Trp Asp Ser
      130   135   140

Glu Leu Gly Gly Xaa Asp Trp Glu Val Asn Thr Trp Tyr Tyr Arg
145   150   155

5533

<210> 6302
<211> 211
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (56)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (57)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6302
Asp Ser Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile
 1   5   10   15

Pro Gly Ser Thr His Ala Ser Gly Lys Gly Phe Tyr Ser Tyr Gln Ser
           20   25   30

Leu His Glu Trp Phe Arg Asp Thr Asp Ala Glu Phe Val Asp Ile Asp
          35   40   45

Gly Lys Ser His Leu Ile Leu Xaa Xaa Arg Ser Xaa Val Pro Ile Ile
    50   55   60

Leu Gln Trp Asn Lys Ser Ser Lys Lys Phe Val Pro His Gly Asp Ile
65   70   75   80

Pro Asn Met Glu Asp Val Leu Ala Val Lys Ser Phe Arg Met Gln Asn
          85   90   95

Thr Leu Tyr Leu Ser Leu Thr Arg Phe Ile Gly Asp Ser Arg Val Met
          100   105   110

Arg Trp Asn Ser Lys Gln Phe Val Glu Ile Gln Ala Leu Pro Ser Arg
          115   120   125

Gly Ala Met Thr Leu Gln Pro Phe Ser Phe Lys Asp Asn His Tyr Leu
        130   135   140

Ala Leu Gly Ser Asp Tyr Thr Phe Ser Gln Ile Tyr Gln Trp Asp Lys
145   150   155   160

5534

```
Glu Lys Gln Leu Phe Lys Lys Phe Lys Glu Ile Tyr Val Gln Ala Pro
                165             170             175

Arg Ser Phe Thr Ala Val Ser Thr Asp Arg Arg Asp Phe Phe Phe Ala
            180             185             190

Ser Ser Phe Lys Gly Lys Thr Lys Ile Phe Glu His Ile Ile Val Asp
        195             200             205

Leu Ser Leu
    210
```

```
<210> 6303
<211> 704
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (89)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (122)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6303
Arg His Pro Ala Ala His Pro Ala Gly Pro Gly Glu Ala Leu Ala Ala
  1           5               10              15

Val Leu Lys Glu Val Cys Asp Ala Trp Ser Leu Thr His Ser Glu Arg
            20              25              30

Tyr Ala Leu Gln Phe Ala Asp Gly His Arg Arg Tyr Ile Thr Glu Asn
        35              40              45

Asn Arg Ala Glu Ile Lys Asn Gly Ser Ile Leu Cys Leu Ser Thr Ala
    50              55              60

Pro Asp Leu Glu Ala Glu Gln Leu Leu Gly Gly Leu Gln Ser Asn Ser
65              70              75              80

Pro Glu Gly Arg Arg Glu Ala Leu Xaa Arg Leu Val Pro Leu Ala Ser
            85              90              95

Asp Met Ile Phe Ala Arg Glu Val Ile Ser Arg Asn Gly Leu Gln Ile
            100             105             110
```

5535

Leu Gly Thr Ile Ile Glu Asp Gly Asp Xaa Leu Gly Glu Val Leu Ala
        115   120   125

Leu Ser Leu Arg Ala Phe Ser Glu Leu Met Glu His Gly Val Val Ser
    130   135   140

Trp Glu Thr Leu Ser Ile Pro Phe Val Arg Lys Val Val Cys Tyr Val
145   150   155   160

Asn Met Asn Leu Met Asp Ala Ser Val Pro Pro Leu Ala Leu Gly Leu
                165   170   175

Leu Glu Ser Val Thr Leu Ser Ser Pro Ala Leu Gly Gln Leu Val Lys
            180   185   190

Ser Glu Val Pro Leu Asp Arg Leu Leu Val His Leu Gln Val Met Asn
            195   200   205

Gln Gln Leu Gln Thr Lys Ala Met Ala Leu Leu Thr Ala Leu Leu Gln
    210   215   220

Gly Ala Ser Pro Val Glu Arg Lys His Met Leu Asp Tyr Leu Trp Gln
225   230   235   240

Arg Asn Leu Arg Gln Phe Ile Tyr Lys Asn Ile Ile His Ser Ala Ala
            245   250   255

Pro Met Gly Asp Glu Met Ala His His Leu Tyr Val Leu Gln Ala Leu
            260   265   270

Met Leu Gly Leu Leu Glu Pro Arg Met Arg Thr Pro Leu Asp Pro Tyr
        275   280   285

Ser Gln Glu Gln Arg Glu Gln Leu Gln Val Leu Arg Gln Ala Ala Phe
    290   295   300

Glu Val Glu Gly Glu Ser Ser Gly Ala Gly Leu Ser Ala Asp Arg Arg
305   310   315   320

Arg Ser Leu Cys Ala Arg Glu Phe Arg Lys Leu Gly Phe Ser Asn Ser
            325   330   335

Asn Pro Ala Gln Asp Leu Glu Arg Val Pro Pro Gly Leu Leu Ala Leu
            340   345   350

Asp Asn Met Leu Tyr Phe Ser Arg Asn Ala Pro Ser Ala Tyr Ser Arg
        355   360   365

Phe Val Leu Glu Asn Ser Ser Arg Glu Asp Lys His Glu Cys Pro Phe
    370   375   380

5536

```
Ala Arg Gly Ser Ile Gln Leu Thr Val Leu Leu Cys Glu Leu Leu Arg
385             390         395                 400

Val Gly Glu Pro Cys Ser Glu Thr Ala Gln Asp Phe Ser Pro Met Phe
            405             410             415

Phe Gly Gln Asp Gln Ser Phe His Glu Leu Phe Cys Val Gly Ile Gln
        420             425             430

Leu Leu Asn Lys Thr Trp Lys Glu Met Arg Ala Thr Gln Glu Asp Phe
        435             440             445

Asp Lys Val Met Gln Val Val Arg Glu Gln Leu Ala Arg Thr Leu Ala
    450             455             460

Leu Lys Pro Thr Ser Leu Glu Leu Phe Arg Thr Lys Val Asn Ala Leu
465             470             475             480

Thr Tyr Gly Glu Val Leu Arg Leu Arg Gln Thr Glu Arg Leu His Gln
            485             490             495

Glu Gly Thr Leu Ala Pro Pro Ile Leu Glu Leu Arg Glu Lys Leu Lys
        500             505             510

Pro Glu Leu Met Gly Leu Ile Arg Gln Gln Arg Leu Leu Arg Leu Cys
        515             520             525

Glu Gly Thr Leu Phe Arg Lys Ile Ser Ser Arg Arg Gln Asp Lys
    530             535             540

Leu Trp Phe Cys Cys Leu Ser Pro Asn His Lys Leu Leu Gln Tyr Gly
545             550             555             560

Asp Met Glu Glu Gly Ala Ser Pro Pro Thr Leu Glu Ser Leu Pro Glu
            565             570             575

Gln Leu Pro Val Ala Asp Met Arg Ala Leu Leu Thr Gly Lys Asp Cys
        580             585             590

Pro His Val Arg Glu Lys Gly Ser Gly Lys Gln Asn Lys Asp Leu Tyr
        595             600             605

Glu Leu Ala Phe Ser Ile Ser Tyr Asp Arg Gly Glu Glu Glu Ala Tyr
    610             615             620

Leu Asn Phe Ile Ala Pro Ser Lys Arg Glu Phe Tyr Leu Trp Thr Asp
625             630             635             640

Gly Leu Ser Ala Leu Leu Gly Ser Pro Met Gly Ser Glu Gln Thr Arg
            645             650             655
```

5537

```
Leu Asp Leu Glu Gln Leu Leu Thr Met Glu Thr Lys Leu Arg Leu Leu
        660              665              670

Glu Leu Glu Asn Val Pro Ile Pro Glu Arg Pro Pro Pro Val Pro Pro
        675              680              685

Pro Pro Thr Asn Phe Asn Phe Cys Tyr Asp Cys Ser Ile Ala Glu Pro
    690              695              700
```

```
<210> 6304
<211> 75
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6304
Leu Pro Leu Leu Gln Xaa Glu Met Cys Ile Arg Asp Ser Tyr Arg Arg
  1               5               10              15

Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser
            20              25              30

Ala His Ala Ser Ala Asp Ala Trp Ala Val Thr Glu Ile Ile Phe Pro
        35              40              45

Tyr Glu Gln Thr Leu Cys Val Arg Pro Val Ser His Met Ser Arg Ala
    50              55              60

Cys Val Gln Val Cys Phe Trp His Val Pro His
65              70              75
```

```
<210> 6305
<211> 238
<212> PRT
<213> Homo sapiens

<400> 6305
Glu Ile Ser His Asn Leu Gly Val Cys Tyr Ile Tyr Leu Lys Gln Phe
  1               5               10              15
```

5538

Asn Lys Ala Gln Asp Gln Leu His Asn Ala Leu Asn Leu Asn Arg His
              20   25   30

Asp Leu Thr Tyr Ile Met Leu Gly Lys Ile His Leu Leu Glu Gly Asp
          35   40   45

Leu Asp Lys Ala Ile Glu Val Tyr Lys Lys Ala Val Glu Phe Ser Pro
      50   55   60

Glu Asn Thr Glu Leu Leu Thr Thr Leu Gly Leu Leu Tyr Leu Gln Leu
65   70   75   80

Gly Ile Tyr Gln Lys Ala Phe Glu His Leu Gly Asn Ala Leu Thr Tyr
              85   90   95

Asp Pro Thr Asn Tyr Lys Ala Ile Leu Ala Ala Gly Ser Met Met Gln
              100   105   110

Thr His Gly Asp Phe Asp Val Ala Leu Thr Lys Tyr Arg Val Val Ala
          115   120   125

Cys Ala Val Pro Glu Ser Pro Pro Leu Trp Asn Asn Ile Gly Met Cys
      130   135   140

Phe Phe Gly Lys Lys Lys Tyr Val Ala Ala Ile Ser Cys Leu Lys Arg
145   150   155   160

Ala Asn Tyr Leu Ala Pro Phe Asp Trp Lys Ile Leu Tyr Asn Leu Gly
              165   170   175

Leu Val His Leu Thr Met Gln Gln Tyr Ala Ser Ala Phe His Phe Leu
              180   185   190

Ser Ala Ala Ile Asn Phe Gln Pro Lys Met Gly Glu Leu Tyr Met Leu
          195   200   205

Leu Ala Val Ala Leu Thr Asn Leu Glu Asp Thr Glu Asn Ala Lys Arg
      210   215   220

Ala Tyr Ala Glu Ala Val His Leu Asp Lys Tyr Ala Leu Cys
225   230   235

<210> 6306
<211> 345
<212> PRT
<213> Homo sapiens

<400> 6306
Arg Glu Gln Lys Leu Glu Leu His Arg Gly Gly Gly Arg Ser Arg Thr

5539

| | 1 | | | | 5 | | | | | 10 | | | | | 15 |

Ser Gly Ser Pro Gly Leu Gln Glu Phe Gly Thr Ser Asn Asp Ala Ala
            20   25   30

Ser Met Glu Ser Leu Tyr Asp Leu Trp Glu Phe Tyr Leu Pro Tyr Leu
        35   40   45

Tyr Ser Cys Ile Ser Leu Met Gly Cys Leu Leu Leu Leu Leu Cys Thr
    50   55   60

Pro Val Gly Leu Ser Arg Met Phe Thr Val Met Gly His Leu Leu Val
65   70   75   80

Lys Pro Thr Ile Leu Glu Asp Leu Asp Glu Gln Ile Tyr Ile Ile Thr
            85   90   95

Leu Glu Glu Glu Ala Leu Gln Arg Arg Leu Asn Gly Leu Ser Ser Ser
        100   105   110

Val Glu Tyr Asn Ile Met Glu Leu Glu Gln Glu Leu Glu Asn Val Lys
        115   120   125

Thr Leu Lys Thr Lys Leu Glu Arg Arg Lys Lys Ala Ser Ala Trp Glu
    130   135   140

Arg Asn Leu Val Tyr Pro Ala Val Met Val Leu Leu Leu Ile Glu Thr
145   150   155   160

Ser Ile Ser Val Leu Leu Val Ala Cys Asn Ile Leu Cys Leu Leu Val
            165   170   175

Asp Glu Thr Ala Met Pro Lys Gly Thr Arg Gly Pro Gly Ile Gly Asn
            180   185   190

Ala Ser Leu Ser Thr Phe Gly Phe Val Gly Ala Ala Leu Glu Ile Ile
        195   200   205

Leu Ile Phe Tyr Leu Met Val Ser Ser Val Val Gly Phe Tyr Ser Leu
    210   215   220

Arg Phe Phe Gly Asn Phe Thr Pro Lys Lys Asp Asp Thr Thr Met Thr
225   230   235   240

Lys Ile Ile Gly Asn Cys Val Ser Ile Leu Val Leu Ser Ser Ala Leu
            245   250   255

Pro Val Met Ser Arg Thr Leu Gly Ile Thr Arg Phe Asp Leu Leu Gly
            260   265   270

Asp Phe Gly Arg Phe Asn Trp Leu Gly Asn Phe Tyr Ile Val Leu Ser

5540

```
              275                    280                    285
Tyr Asn Leu Leu Phe Ala Ile Val Thr Thr Leu Cys Leu Val Arg Lys
    290                    295                    300

Phe Thr Ser Ala Val Arg Glu Glu Leu Phe Lys Ala Leu Gly Leu His
305                    310                    315                    320

Lys Leu His Leu Pro Asn Thr Ser Arg Asp Ser Glu Thr Ala Lys Pro
                325                    330                    335

Ser Val Asn Gly His Gln Lys Ala Leu
                340                    345
```

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<210> 6307
<211> 404
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (346)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (401)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6307
Xaa Val Arg Val Gln Thr Arg Gly Ser Ala Asp Pro Ala Gln Leu Arg
   1                 5                    10                    15

Arg His Pro Gly Tyr Lys Arg Thr Ala Ser Ala Thr Leu Ser Asp Pro
                20                    25                    30

Ala Ala Ala Ala Met Gln Pro Ser Ser Leu Leu Pro Leu Ala Leu Cys
            35                    40                    45

Leu Leu Ala Ala Pro Ala Ser Ala Leu Val Arg Ile Pro Leu His Lys
        50                    55                    60

Phe Thr Ser Ile Arg Arg Thr Met Ser Glu Val Gly Gly Ser Val Glu
65                    70                    75                    80
```

5541

```
Asp Leu Ile Ala Lys Gly Pro Val Ser Lys Tyr Ser Gln Ala Val Pro
                85                  90                  95

Ala Val Thr Glu Gly Pro Ile Pro Glu Val Leu Lys Asn Tyr Met Asp
                100             105             110

Ala Gln Tyr Tyr Gly Glu Ile Gly Ile Gly Thr Pro Pro Gln Cys Phe
            115             120             125

Thr Val Val Phe Asp Thr Gly Ser Ser Asn Leu Trp Val Pro Ser Ile
        130             135             140

His Cys Lys Leu Leu Asp Ile Ala Cys Trp Ile His His Lys Tyr Asn
145             150             155             160

Ser Asp Lys Ser Ser Thr Tyr Val Lys Asn Gly Thr Ser Phe Asp Ile
            165             170             175

His Tyr Gly Ser Gly Ser Leu Ser Gly Tyr Leu Ser Gln Asp Thr Val
        180             185             190

Ser Val Pro Cys Gln Ser Ala Ser Ser Ala Ser Ala Leu Gly Gly Val
        195             200             205

Lys Val Glu Arg Gln Val Phe Gly Glu Ala Thr Lys Gln Pro Gly Ile
    210             215             220

Thr Phe Ile Ala Ala Lys Phe Asp Gly Ile Leu Gly Met Ala Tyr Pro
225             230             235             240

Arg Ile Ser Val Asn Asn Val Leu Pro Val Phe Asp Asn Leu Met Gln
            245             250             255

Gln Lys Leu Val Asp Gln Asn Ile Phe Ser Phe Tyr Leu Ser Arg Asp
        260             265             270

Pro Asp Ala Gln Pro Gly Gly Glu Leu Met Leu Gly Gly Thr Asp Ser
        275             280             285

Lys Tyr Tyr Lys Gly Ser Leu Ser Tyr Leu Asn Val Thr Arg Lys Ala
    290             295             300

Tyr Trp Gln Val His Leu Asp Gln Val Glu Val Ala Ser Gly Leu Thr
305             310             315             320

Leu Cys Lys Glu Gly Cys Glu Ala Ile Val Asp Thr Gly Thr Ser Leu
            325             330             335

Met Val Gly Pro Val Asp Glu Val Arg Xaa Leu Gln Lys Ala Ile Gly
            340             345             350
```

5542

```
Ala Val Pro Leu Ile Gln Gly Glu Tyr Met Ile Pro Cys Glu Lys Val
        355             360             365

Ser Thr Leu Pro Ala Ile Thr Leu Lys Leu Gly Gly Lys Gly Tyr Lys
        370             375             380

Leu Ser Pro Glu Asp Tyr Thr Leu Lys Val Ser Gln Ala Gly Lys Thr
385             390             395             400

Xaa Cys Leu Ser
```

```
<210> 6308
<211> 40
<212> PRT
<213> Homo sapiens

<400> 6308
Asn Pro Val Ser Thr Lys Ile Gln Lys Ile Ser Trp Ala Trp Trp Arg
    1           5               10              15

Thr Pro Val Val Pro Ala Thr Leu Glu Ala Glu Ala Gly Glu Ser Leu
            20              25              30

Lys Pro Arg Arg Arg Arg Leu Gln
        35              40
```

```
<210> 6309
<211> 69
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```
<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (53)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6309
Thr Ala His Ser Gly Cys Cys Ile Glu Lys Arg Met Trp Trp Thr Asp
  1           5               10              15


Ile Glu Ala Trp Lys Pro Asp Arg Xaa Ile Ala Ile Thr Gln Lys Arg
             20              25              30


Gly Asp Gly Ser Leu Asp Leu Leu Glu Ala Val Xaa Cys Pro Thr Leu
             35              40              45


Gln Leu Xaa Xaa Xaa Glu Lys Gly Pro Glu Arg Leu Ile Leu Ile Thr
     50              55              60


Asn Gly Pro Met Met
     65




<210> 6310
<211> 206
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (178)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6310
Arg Val Asp Pro Arg Val Arg Pro Arg Val Arg Pro Arg Val Arg Gly
  1           5               10              15


Ala Arg Arg Arg Ser Ser Gly Ser Gly Ser Met Ser Ala Gly Gly Ala
             20              25              30


Ser Val Pro Pro Pro Pro Asn Pro Ala Val Ser Phe Pro Pro Pro Arg
             35              40              45


Val Thr Leu Pro Ala Gly Pro Asp Ile Leu Arg Thr Tyr Ser Gly Ala
     50              55              60
```

5544

```
Phe Val Cys Leu Glu Ile Leu Phe Gly Gly Leu Val Trp Ile Leu Val
65                  70              75                  80

Ala Ser Ser Asn Val Pro Leu Pro Leu Leu Gln Gly Trp Val Met Phe
                85              90                  95

Val Ser Val Thr Ala Phe Phe Phe Ser Leu Leu Phe Leu Gly Met Phe
            100             105             110

Leu Ser Gly Met Val Ala Gln Ile Asp Ala Asn Trp Asn Phe Leu Asp
        115             120             125

Phe Ala Tyr His Phe Thr Val Phe Val Phe Tyr Phe Gly Ala Phe Leu
    130             135             140

Leu Glu Ala Ala Ala Thr Ser Leu His Asp Leu His Cys Asn Thr Thr
145             150             155             160

Ile Thr Gly Gln Pro Leu Leu Ser Asp Asn Gln Tyr Asn Ile Asn Val
            165             170             175

Ala Xaa Ser Ile Phe Ala Phe Met Thr Thr Ala Cys Tyr Gly Cys Lys
        180             185             190

Phe Gly Ser Gly Phe Thr Lys Met Ala Thr Arg Asn Thr Ser
        195             200             205
```

<210> 6311
<211> 61
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (53)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (58)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6311

5545

```
Ala Phe Pro Trp Asp Leu Trp Pro Ser Trp Arg Gln Glu Pro Ser Ser
 1               5               10              15

Pro Ser Thr Asp Trp Val Leu Leu Ala Leu Ala Leu Val Asn Leu Leu
             20              25              30

Leu Ser Leu Pro Ala Pro Trp Ala Xaa Phe Leu Leu Cys His Ser Leu
         35              40              45

Gly Pro Thr Val Xaa Arg Gly Leu Leu Xaa Thr Gly Thr
     50              55              60
```

<210> 6312
<211> 169
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6312
```
Pro Ser Leu Ala Val Ala Lys Ile Ile Ile Ile Glu Phe Asn Pro Met
 1               5               10              15

Tyr Pro Lys Xaa Asn Asp Ile Ala Leu Met Lys Leu Gln Phe Pro Leu
             20              25              30

Thr Phe Ser Gly Thr Val Arg Pro Ile Cys Leu Pro Phe Phe Asp Glu
         35              40              45

Glu Leu Thr Pro Ala Thr Pro Leu Trp Ile Ile Gly Trp Gly Phe Thr
     50              55              60

Lys Gln Asn Gly Gly Lys Met Ser Asp Ile Leu Leu Gln Ala Ser Val
 65              70              75              80

Gln Val Ile Asp Ser Thr Arg Cys Asn Ala Asp Asp Ala Tyr Gln Gly
             85              90              95

Glu Val Thr Glu Lys Met Met Cys Ala Gly Ile Pro Glu Gly Gly Val
             100             105             110

Asp Thr Cys Gln Gly Asp Ser Gly Gly Pro Leu Met Tyr Gln Ser Asp
             115             120             125

Gln Trp His Val Val Gly Ile Val Ser Trp Gly Tyr Gly Cys Gly Gly
     130             135             140
```

5546

Pro Ser Thr Pro Gly Val Tyr Thr Lys Val Ser Ala Tyr Leu Asn Trp
145   150   155   160

Ile Tyr Asn Val Trp Lys Ala Glu Leu
                165

<210> 6313
<211> 86
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (71)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6313
Arg Phe Ile Leu Lys Ser Val His Ile Gln His Lys Glu Arg Lys Asn
  1   5   10   15

Leu Thr Asn Leu Lys Ser Ala Val Ile Leu Ala His Val Asn Thr Ile
            20   25   30

Leu Ile Ser Trp Phe Ile Tyr Phe Leu Met Phe Val Ser Ile Tyr Ile
            35   40   45

Tyr Ile Tyr Ile Tyr Ile Tyr Ile Tyr Ile Tyr Ile Tyr Ile Tyr Ile
     50   55   60

Tyr Ile Tyr Ile Tyr Ile Xaa Ile Pro Ser Ser Lys Trp Pro Val Ile
 65   70   75   80

Ala Cys Lys His Phe Phe
                85

<210> 6314
<211> 106
<212> PRT
<213> Homo sapiens

<400> 6314
Gly Gly Tyr Ser Val Asp Ser Pro Thr Leu Thr Arg Phe Phe Thr Phe
  1   5   10   15

His Phe Ile Leu Pro Phe Ile Ile Ala Ala Leu Ala Ala Leu His Leu
            20   25   30

5547

```
Leu Phe Leu His Glu Thr Gly Ser Asn Asn Pro Leu Gly Ile Thr Ser
         35              40              45

His Ser Asp Lys Ile Thr Phe His Pro Tyr Tyr Thr Ile Lys Asp Ala
         50              55              60

Leu Gly Leu Leu Leu Phe Leu Leu Ser Leu Met Thr Leu Thr Leu Phe
65              70              75              80

Ser Pro Asp Leu Leu Gly Asp Pro Asp Asn Tyr Thr Leu Ala Asn Pro
             85              90              95

Leu Asn Thr Pro Pro His Ile Lys Pro Glu
             100             105
```

```
<210> 6315
<211> 101
<212> PRT
<213> Homo sapiens

<400> 6315
Asp Tyr Ala Arg Pro Lys Tyr Tyr Phe Gln Ile Glu Pro Ser Ser Trp
 1           5               10              15

Val Ala Val Tyr Asn Thr Gln Val Glu Phe Gly Lys Cys Ser Pro Ser
             20              25              30

Leu Pro Phe Phe Thr Val Asp Ala Ser Ala Ser Phe Leu Ser Leu His
         35              40              45

Thr His Cys Pro Thr Ala Gly Phe Pro Phe Ser Phe Arg Ala Val Ala
         50              55              60

Val Pro Phe Leu His Ser His Pro Ser Gln Trp Gln Pro Pro Leu Pro
65              70              75              80

Ser Cys Ile Leu Asn Pro Thr Leu Ile Ile Cys Leu Asp Phe Ala Phe
             85              90              95

Leu Pro Ala Val Leu
             100
```

```
<210> 6316
<211> 132
<212> PRT
<213> Homo sapiens
```

5548

<400> 6316
Gln Arg His Ala Gly Glu Thr Gly Ala Ala Thr Ala Arg Arg Glu Ser
 1   5   10   15

Leu Pro Gln Ala Asn Asn Pro Glu Gln Leu Cys Lys Gln Arg Cys Ile
            20   25   30

Asn Glu Ala Ser Trp Thr Met Lys Arg Val Leu Ser Cys Val Pro Glu
            35   40   45

Pro Thr Val Val Met Ala Ala Arg Ala Leu Cys Met Leu Gly Leu Val
        50   55   60

Leu Ala Leu Leu Ser Ser Ser Ser Ala Glu Glu Tyr Val Gly Leu Ser
65   70   75   80

Ala Asn Gln Cys Ala Val Pro Ala Lys Asp Arg Val Asp Cys Gly Tyr
                85   90   95

Pro His Val Thr Pro Lys Glu Cys Asn Asn Arg Gly Cys Cys Phe Asp
            100   105   110

Ser Arg Ile Pro Gly Val Pro Trp Cys Phe Lys Pro Leu Gln Glu Ala
            115   120   125

Glu Cys Thr Phe
        130

<210> 6317
<211> 105
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6317
Leu Xaa Arg Leu Gln Xaa Pro Val Arg Asn Ser Arg Val Asp Pro Arg
 1   5   10   15

Val Gly Val Pro Glu Pro Thr Val Val Met Ala Ala Arg Ala Leu Cys

5549

```
              20                    25                    30

Met Leu Gly Leu Val Leu Ala Leu Leu Ser Ser Ser Ser Ala Glu Glu
         35                    40                    45

Tyr Val Gly Leu Ser Ala Asn Gln Cys Ala Val Pro Ala Lys Asp Arg
         50                    55                    60

Val Asp Cys Gly Tyr Pro His Val Thr Pro Lys Glu Cys Asn Asn Arg
 65                    70                    75                    80

Gly Cys Cys Phe Asp Ser Arg Ile Pro Gly Val Pro Trp Cys Phe Lys
                 85                    90                    95

Pro Leu Gln Glu Ala Glu Cys Thr Phe
                100                   105
```

<210> 6318
<211> 69
<212> PRT
<213> Homo sapiens

<400> 6318
```
Leu Leu Leu Leu Leu Cys Lys Gly Thr Tyr Ile Pro Gln Tyr Thr Pro
 1               5                    10                    15

Val Pro Pro Thr Ala Val Ser Ile Glu Gly Val Val Ala Asp Thr Ser
             20                    25                    30

Pro Gln Thr Val Ala Pro Ser Ser Gln Asp Thr Ser Gly Gln Gln Gln
         35                    40                    45

Gln Ile Ala Val Asp Thr Ser Asn Glu His Ala Pro Ala Tyr Ser Tyr
         50                    55                    60

Gln Gln Ser Lys Pro
 65
```

<210> 6319
<211> 96
<212> PRT
<213> Homo sapiens

<400> 6319
```
Thr Phe Lys Phe Ala Asn Gln Phe Leu Ala Arg Lys His Phe Cys Tyr
 1               5                    10                    15
```

5550

Thr Asn Ile Leu Leu Ser Leu Pro Lys Ala Pro Pro Met His Ser Phe
              20   25   30

Asn Lys Ile Gln Ser Leu Tyr Phe Lys Val Ile Leu Val Met Lys Phe
              35   40   45

Tyr Met Gln Arg Glu Lys Val Thr Glu Thr Glu Asn Lys Ser Lys Gly
         50   55   60

Lys Glu Tyr Tyr Gly Ile Lys Leu Ser Lys Gln Phe Trp Trp Lys Val
65   70   75   80

Lys Pro Val Ser Ala Pro His Gln Gly Cys Gly Pro Pro Arg His Ala
                   85   90   95

<210> 6320
<211> 285
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (280)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6320
Gly Arg Ala Pro Gly Arg Arg Val Gly Leu Arg Cys Ala Arg Arg Thr
   1   5   10   15

Ser Glu Ala Ala Gly Ser Gly Ala Gly Pro Pro Gly Pro Leu Gln Gly
              20   25   30

Arg Ser Gly Ser Ser Trp Ala Pro Arg Pro Gly Arg Arg Thr Glu Glu
         35   40   45

Arg Arg Lys Gly Ala Gly Gly Thr Arg Pro Arg Pro Ala Ala Ala Met
         50   55   60

Asn Ser Asn Val Glu Asn Leu Pro Pro His Ile Ile Arg Leu Val Tyr
65   70   75   80

Lys Glu Val Thr Thr Leu Thr Ala Asp Pro Pro Asp Gly Ile Lys Val
                   85   90   95

Phe Pro Asn Glu Glu Asp Leu Thr Asp Leu Gln Val Thr Ile Glu Gly
                  100   105   110

5551

```
Pro Glu Gly Thr Pro Tyr Ala Gly Gly Leu Phe Arg Met Lys Leu Leu
        115             120              125

Leu Gly Lys Asp Phe Pro Ala Ser Pro Pro Lys Gly Tyr Phe Leu Thr
        130             135              140

Lys Ile Phe His Pro Asn Val Gly Ala Asn Gly Glu Ile Cys Val Asn
145             150             155              160

Val Leu Lys Arg Asp Trp Thr Ala Glu Leu Gly Ile Arg His Val Leu
            165             170              175

Leu Thr Ile Lys Cys Leu Leu Ile His Pro Asn Pro Glu Ser Ala Leu
        180             185              190

Asn Glu Glu Ala Gly Arg Leu Leu Leu Glu Asn Tyr Glu Glu Tyr Ala
        195             200              205

Ala Arg Ala Arg Leu Leu Thr Glu Ile His Gly Gly Ala Gly Gly Pro
    210             215              220

Ser Gly Arg Ala Glu Ala Gly Arg Ala Leu Ala Ser Gly Thr Glu Ala
225             230             235              240

Ser Ser Thr Asp Pro Gly Ala Pro Gly Gly Pro Gly Gly Ala Glu Gly
            245             250              255

Pro Met Ala Lys Lys His Ala Gly Glu Arg Asp Lys Lys Leu Ala Ala
            260             265              270

Lys Lys Lys Thr Asp Lys Lys Xaa Ala Leu Arg Arg Leu
        275             280              285
```

```
<210> 6321
<211> 40
<212> PRT
<213> Homo sapiens

<400> 6321
His Glu Arg Met Leu Asn Leu Thr Asp Arg Gln Val Lys Ile Trp Phe
1               5               10              15

Gln Asn Arg Arg Met Lys Glu Lys Lys Leu Asn Arg Asp Arg Leu Gln
            20              25              30

Tyr Phe Thr Gly Asn Pro Leu Phe
        35              40
```

5552

```
<210> 6322
<211> 118
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6322
Gly Ala Glu Arg Arg Gln Xaa Val Val Lys Lys Ala Asp Met Ile Asn
  1               5                  10                  15

Xaa Asn Met Thr His Gln Val Gln Ala Glu Arg Asp Ala Leu Ala Leu
            20                  25                  30

Ser Lys Ser Pro Phe Ile Xaa His Leu Tyr Tyr Ser Leu Gln Ser Ala
          35                  40                  45

Asn Asn Val Tyr Leu Val Met Glu Tyr Leu Ile Gly Gly Asp Val Lys
      50                  55                  60

Ser Leu Leu His Ile Tyr Gly Tyr Phe Asp Glu Glu Met Ala Val Lys
 65                  70                  75                  80

Tyr Ile Ser Glu Val Ala Leu Ala Leu Asp Tyr Leu His Arg His Gly
              85                  90                  95

Ile Ile His Arg Asp Leu Lys Pro Asp Asn Met Leu Ile Ser Asn Glu
              100                 105                 110

Gly His Ile Lys Leu Thr
            115


<210> 6323
<211> 405
```

5553

<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (96)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6323

```
Met Glu Ala Glu Thr Pro Ser Thr Glu Val Pro Pro Asp Pro Glu Pro
 1               5                  10              15

Gly Val Pro Leu Thr Pro Pro Ser Gln His Gln Glu Ala Gly Ala Gly
            20                  25              30

Asp Leu Cys Ala Leu Cys Gly Glu His Leu Tyr Val Leu Glu Arg Leu
        35              40              45

Cys Val Asn Gly His Phe Phe His Arg Ser Cys Phe Arg Cys His Thr
    50                  55              60

Cys Glu Ala Thr Leu Trp Pro Gly Gly Tyr Glu Gln His Pro Gly Asp
65              70              75                      80

Gly His Phe Tyr Cys Leu Gln His Leu Pro Gln Thr Asp His Lys Xaa
                85              90              95

Glu Gly Ser Asp Arg Gly Pro Glu Ser Pro Glu Leu Pro Thr Pro Ser
            100             105             110

Glu Asn Ser Met Pro Pro Gly Leu Ser Thr Pro Thr Ala Ser Gln Glu
        115             120             125

Gly Ala Gly Pro Val Pro Asp Pro Ser Gln Pro Thr Arg Arg Gln Ile
    130             135             140

Arg Leu Ser Ser Pro Glu Arg Gln Arg Leu Ser Ser Leu Asn Leu Thr
145             150             155             160

Pro Asp Pro Glu Met Glu Pro Pro Lys Pro Pro Arg Ser Cys Ser
                165             170             175

Ala Leu Ala Arg His Ala Leu Glu Ser Ser Phe Val Gly Trp Gly Leu
            180             185             190

Pro Val Gln Ser Pro Gln Ala Leu Val Ala Met Glu Lys Glu Glu Lys
            195             200             205

Glu Ser Pro Phe Ser Ser Glu Glu Glu Glu Asp Val Pro Leu Asp
    210             215             220
```

5554

Ser Asp Val Glu Gln Ala Leu Gln Thr Phe Ala Lys Thr Ser Gly Thr
225   230   235   240

Met Asn Asn Tyr Pro Thr Trp Arg Arg Thr Leu Leu Arg Arg Ala Lys
                245   250   255

Glu Glu Glu Met Lys Arg Phe Cys Lys Ala Gln Thr Ile Gln Arg Arg
            260   265   270

Leu Asn Glu Ile Glu Ala Ala Leu Arg Glu Leu Glu Ala Glu Gly Val
        275   280   285

Lys Leu Glu Leu Ala Leu Arg Arg Gln Ser Ser Ser Pro Glu Gln Gln
    290   295   300

Lys Lys Leu Trp Val Gly Gln Leu Leu Gln Leu Val Asp Lys Lys Asn
305   310   315   320

Ser Leu Val Ala Glu Glu Ala Glu Leu Met Ile Thr Val Gln Glu Leu
            325   330   335

Asn Leu Glu Glu Lys Gln Trp Gln Leu Asp Gln Glu Leu Arg Gly Tyr
            340   345   350

Met Asn Arg Glu Glu Asn Leu Lys Thr Ala Ala Asp Arg Gln Ala Glu
        355   360   365

Asp Gln Val Leu Arg Lys Leu Val Asp Leu Val Asn Gln Arg Asp Ala
    370   375   380

Leu Ile Arg Phe Gln Glu Glu Arg Arg Leu Ser Glu Leu Ala Leu Gly
385   390   395   400

Thr Gly Ala Gln Gly
            405

<210> 6324
<211> 114
<212> PRT
<213> Homo sapiens

<400> 6324
Leu Ile Lys Trp Lys Ile Ser Lys Glu Cys Lys Ile Ile Trp Gly Glu
  1   5   10   15

Ser Cys Lys Met Trp Ser Phe Phe Thr Thr Asn Ile Phe Ser Pro Ser
            20   25   30

Asp Val Tyr Met Phe Tyr Asp Leu Lys Tyr Gln Thr Met Val Cys Asp

5555

```
              35                    40                    45

Ile Met Gly Leu Pro Leu Ala Gln Lys Arg Leu Leu Leu Ser Ser Ala
         50                    55                    60

Cys Leu Met Thr Ile Gly Trp Ser Leu Leu Ser Leu Asn Phe Tyr Phe
65                    70                    75                    80

Leu Ile Ile Leu Val Ala Ile Arg Leu Lys Arg Glu Cys Thr Trp Glu
              .85                    90                    95

Arg Ile Leu Lys Thr Asp Gln Ser Val Lys Cys His Val Leu Glu Lys
             100                   105                   110

Ile Lys
```

<210> 6325
<211> 80
<212> PRT
<213> Homo sapiens

<400> 6325

```
Asn Thr Ala Thr Tyr Pro Gly Asn Met Lys Ile Leu Phe Val Glu Pro
  1                 5                    10                    15

Ala Ile Phe Leu Ser Ala Phe Ala Met Thr Leu Thr Gly Pro Leu Thr
             20                    25                    30

Thr Gln Tyr Val Tyr Arg Arg Ile Trp Glu Glu Thr Gly Asn Tyr Thr
             35                    40                    45

Phe Ser Ser Asp Ser Asn Ile Ser Glu Cys Glu Lys Asn Lys Ser Ser
         50                    55                    60

Pro Ile Phe Ala Phe Gln Glu Val Arg Asn Tyr Asn Ile His Ser Ile
65                    70                    75                    80
```

<210> 6326
<211> 34
<212> PRT
<213> Homo sapiens

<400> 6326

5556

Phe Met Ile Trp Asn Ser Ile His Pro Phe Ser Gly Ile Lys Thr Phe
 1   5   10   15

Leu Asp Phe Phe Arg Ile Gly Ser Glu Leu Val Tyr Tyr Leu Ala Phe
                20   25   30

Ser Phe

<210> 6327
<211> 68
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (65)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (68)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6327
Cys Arg Leu Val Lys Ala Ser Leu Asp Glu Lys Ser Ala Thr Gly Trp
 1   5   10   15

Pro Pro Val Cys Phe Ala Met Arg Ile Asn Leu Leu Phe Val Cys Leu
                20   25   30

Lys Thr Pro Ile Ser Glu Ser Ser Val Leu Met Phe Val Glu His Asn
            35   40   45

Leu Ile Lys Asn Ile Lys Ile Phe Thr Leu Ala Phe Thr Leu Thr Val
        50   55   60

Xaa Gly Gly Xaa
 65

<210> 6328
<211> 25
<212> PRT
<213> Homo sapiens

<400> 6328
Gly Leu Leu Leu Val Pro Asn Ser Cys Arg Pro Gly Asp Pro Leu Val

5557

1	5	10	15

Leu Glu Arg Pro Pro Pro Arg Trp Ser
              20   25

<210> 6329
<211> 106
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (79)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6329
Lys Gly Val Pro Arg Ala Gln Gln Gly Ala Lys Ser Gly Asp Ile Ala
   1   5   10   15

Ser Glu His Pro Thr Cys Ala Thr His Val His Pro Pro Thr His Thr
              20   25   30

His Ala His Ser His Ala His Ser His Ala His Ser His Ala His Ser
          35   40   45

His Ala His Ser His Ala His Ser His Ala His Ser His Ala His Ser
     50   55   60

His Ala His Thr Ala Trp Thr Leu Phe Pro Leu Cys Pro Trp Xaa His
  65   70   75   80

Thr Pro Ser Lys Pro Leu Thr Phe Ile Ser Pro Cys Val Phe Ser Lys
              85   90   95

Lys Val Tyr Gln Ala Arg Pro Pro Gly Gly
           100   105

<210> 6330
<211> 147
<212> PRT
<213> Homo sapiens

<400> 6330
Asn Phe Pro Leu Pro Gly Gly Glu Lys Gln Arg Val Ala Ile Ala Arg
   1   5   10   15

Ala Ile Leu Lys Asp Pro Pro Val Ile Leu Tyr Asp Glu Ala Thr Ser

5558

```
                20                      25                      30

Ser Leu Asp Ser Ile Thr Glu Glu Thr Ile Leu Gly Ala Met Lys Asp
        35                      40                      45

Val Val Lys His Arg Thr Ser Ile Phe Ile Ala His Arg Leu Ser Thr
        50                      55                      60

Val Val Asp Ala Asp Glu Ile Ile Val Leu Asp Gln Gly Lys Val Ala
65                      70                      75                      80

Glu Arg Gly Thr His His Gly Leu Leu Ala Asn Pro His Ser Ile Tyr
                85                      90                      95

Ser Glu Met Trp His Thr Gln Ser Ser Arg Val Gln Asn His Asp Asn
            100                     105                     110

Pro Lys Trp Glu Ala Lys Lys Glu Asn Ile Ser Lys Glu Glu Glu Arg
        115                     120                     125

Lys Lys Leu Gln Glu Glu Ile Val Asn Ser Val Lys Gly Cys Gly Asn
    130                     135                     140

Cys Ser Cys
145
```

`<210> 6331`
`<211> 176`
`<212> PRT`
`<213> Homo sapiens`

`<220>`
`<221> SITE`
`<222> (167)`
`<223> Xaa equals any of the naturally occurring L-amino acids`

`<400> 6331`
```
Cys Gln Gln Leu Met Asp Leu Thr Ala Asn Leu Asn Leu Leu Trp Ser
  1               5                      10                      15

Ala Pro Phe Gln Ile Leu Met Ala Val Tyr Leu Leu Trp Gln Glu Leu
            20                      25                      30

Gly Pro Ala Val Leu Ala Gly Val Ala Val Leu Val Phe Val Ile Pro
            35                      40                      45

Ile Asn Ala Leu Ala Ala Thr Lys Ile Lys Lys Leu Lys Val Ser Leu
    50                      55                      60
```

5559

```
Ala Thr Leu Cys Val Tyr Phe Leu Leu Asp Glu Gly Asn Ile Leu Thr
65                  70              75                  80

Ala Thr Lys Val Phe Thr Ser Met Ser Leu Phe Asn Ile Leu Arg Ile
                85              90                  95

Pro Leu Phe Glu Leu Pro Thr Val Ile Ser Ala Val Val Gln Thr Lys
            100             105             110

Ile Ser Leu Gly Arg Leu Glu Asp Phe Leu Asn Thr Glu Glu Leu Leu
        115             120             125

Pro Gln Ser Ile Glu Thr Asn Tyr Thr Gly Asp His Ala Ile Gly Phe
    130             135             140

Thr Asp Ala Ser Phe Ser Trp Asp Lys Thr Gly Met Pro Val Leu Lys
145             150             155                 160

Glu Ala Leu Trp Leu Met Xaa Leu Asn Lys Pro Gly Phe Lys Ile Ala
            165             170             175
```

<210> 6332
<211> 129
<212> PRT
<213> Homo sapiens

<400> 6332
```
Pro Ala Gly Thr Gly Pro Glu Phe Pro Gly Arg Pro Thr Arg Pro Ala
1               5               10              15

Lys Cys Tyr His Glu Arg Arg Lys Leu Asp Phe Phe Val Leu Ile Met
            20              25              30

Ala Ser Thr Cys Thr Phe Pro Glu Trp Ser Leu Leu Arg Pro Phe Leu
        35              40              45

Val Pro Phe Gln Ser Cys Pro His His Pro Ala Pro Leu Ala Ser Val
    50              55              60

His Ser Gly Pro Gln Pro Arg Pro Gly Leu Leu Cys Ser Ala Pro Thr
65              70              75                  80

Ala His His Pro Ser Cys Phe Pro Glu Pro Asp Pro Val Pro Pro Thr
            85              90                  95

Gly Asn Gln Gly Cys Ala Leu Pro Cys Pro Arg Ser Pro Gly Leu Pro
```

5560

                100   105   110

Val Leu Ser Leu Leu Ile Ile Ile Asn Ser Gly Phe Gln Leu Gln Pro
            115   120   125

Arg

<210> 6333
<211> 93
<212> PRT
<213> Homo sapiens

<400> 6333
Asp Phe Gln Ile Asp Lys Cys Thr Gly Tyr Val Glu Val Gln Lys Ser
1   5   10   15

Ile Thr Val Leu Gln His Ile Tyr Leu Gly Asn Leu Lys His Val Leu
            20   25   30

Leu Met Tyr Gln Ala Val Cys Cys Ser Gln Arg Asp Pro Ile Ser Ala
            35   40   45

Leu Gly Ile Leu Gly Glu Asn Met Tyr Lys Glu Ile Val Leu Ala His
        50   55   60

Ser Ser Lys Gly Ser Asp Gln Gly His Leu Ala Leu Arg Gly Asn Leu
65   70   75   80

Gly Lys Val Pro Trp Arg Met Arg Leu Leu Leu Lys Ser
                85   90

<210> 6334
<211> 76
<212> PRT
<213> Homo sapiens

<400> 6334
Leu Val Arg Leu Gln Val Pro Val Arg Asn Ser Arg Val Asp Pro Arg
1   5   10   15

Val Arg Asn Arg Glu Arg Lys Gly Gln Arg Trp Lys Ile Leu Phe Tyr
            20   25   30

Cys Phe Asp Phe Arg His Pro Glu Arg Val Thr Asn Phe Lys Thr Leu
            35   40   45

5561

```
Asn Lys Val Ala Leu Cys Trp Gly Arg Asn Leu Ala Ile Leu Val Thr
     50                  55              60

Leu Lys Ser Arg Tyr Pro Phe Ser Leu Glu Ser Pro
 65              70              75
```

<210> 6335
<211> 349
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (340)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6335
```
Arg Asn Val Gln Leu Leu Thr Ala Ala Glu Thr Trp Glu Pro Arg Gly
  1           5               10              15

Pro Leu Ser Ser Gln Pro Pro Pro Ser Ser Arg Ala Gly Pro Pro
             20          25              30

Arg Pro Arg Leu Leu Leu Thr Pro Arg Pro Gly Ala Arg Phe Cys Gly
         35              40              45

Ser Ile Ile Leu Cys His Tyr Glu Met Ser Ser Leu Gly Ala Ser Phe
     50              55              60

Val Gln Ile Lys Phe Asp Asp Leu Gln Phe Phe Glu Asn Cys Gly Gly
 65              70              75              80

Gly Ser Phe Gly Ser Val Tyr Arg Ala Lys Trp Ile Ser Gln Asp Lys
             85              90              95

Glu Val Ala Val Lys Lys Leu Leu Lys Ile Glu Lys Glu Ala Glu Ile
             100             105             110

Leu Ser Val Leu Ser His Arg Asn Ile Ile Gln Phe Tyr Gly Val Ile
             115             120             125

Leu Glu Pro Pro Asn Tyr Gly Ile Val Thr Glu Tyr Ala Ser Leu Gly
     130             135             140

Ser Leu Tyr Asp Tyr Ile Asn Ser Asn Arg Ser Glu Glu Met Asp Met
145             150             155             160

Asp His Ile Met Thr Trp Ala Thr Asp Val Ala Lys Gly Met His Tyr
             165             170             175
```

5562

```
Leu His Met Glu Ala Pro Val Lys Val Ile His Arg Asp Leu Lys Ser
            180             185             190

Arg Asn Val Val Ile Ala Ala Asp Gly Val Leu Lys Ile Cys Asp Phe
            195             200             205

Gly Ala Ser Arg Phe His Asn His Thr Thr His Met Ser Leu Val Gly
    210             215             220

Thr Phe Pro Trp Met Ala Pro Glu Val Ile Gln Ser Leu Pro Val Ser
225             230             235             240

Glu Thr Cys Asp Thr Tyr Ser Tyr Gly Val Val Leu Trp Glu Met Leu
            245             250             255

Thr Arg Glu Val Pro Phe Lys Gly Leu Glu Gly Leu Gln Val Ala Trp
            260             265             270

Leu Val Val Glu Lys Asn Glu Arg Leu Thr Ile Pro Ser Ser Cys Pro
            275             280             285

Arg Ser Phe Ala Glu Leu Leu His Gln Cys Trp Glu Ala Asp Ala Lys
    290             295             300

Lys Arg Pro Ser Phe Lys Gln Ile Ile Ser Ile Leu Glu Ser Met Ser
305             310             315             320

Asn Asp Thr Ser Leu Leu Thr Ser Val Thr His Ser Tyr Thr Thr Arg
            325             330             335

Arg Ser Gly Xaa Ala Lys Leu Arg Gln Leu Leu Arg Gly
            340             345
```

```
<210> 6336
<211> 65
<212> PRT
<213> Homo sapiens

<400> 6336
His Phe Gly Arg Pro Arg Gln Ala Asp His Leu Arg Ser Gly Val Gln
  1             5               10                  15

Asn Gln Pro Gly Gln Asp Gly Glu Thr Pro Ser Leu Leu Lys Ile Gln
            20              25                  30

Lys Lys Ile Ser Arg Ala Trp Trp His Val Pro Val Ile Pro Ala Thr
            35              40                  45
```

5563

Trp Glu Thr Glu Ala Gly Glu Leu Leu Glu Pro Gly Arg Arg Arg Leu
    50   55   60

Gln
 65

<210> 6337
<211> 104
<212> PRT
<213> Homo sapiens

<400> 6337
Ser Arg Asp Trp Val Thr Asn Asn Thr Arg Thr Lys Leu Arg Asp His
 1   5   10   15

Tyr Ser Ser Ile Ser Pro Ser Phe His Lys Thr Ala Val Lys Met Phe
            20   25   30

Asp Ile Lys Ala Trp Ala Glu Tyr Val Val Glu Trp Ala Ala Lys Asp
        35   40   45

Pro Tyr Gly Phe Leu Thr Thr Val Ile Leu Ala Leu Thr Pro Leu Phe
    50   55   60

Leu Ala Ser Ala Val Leu Ser Trp Lys Leu Ala Lys Met Ile Glu Ala
 65   70   75   80

Arg Glu Lys Glu Gln Lys Lys Lys Gln Lys Arg Gln Glu Asn Ile Ala
                85   90   95

Lys Ala Lys Arg Leu Lys Lys Asp
            100

<210> 6338
<211> 146
<212> PRT
<213> Homo sapiens

<400> 6338
Thr His Trp Phe Gln Arg Pro Leu Arg Met Cys Leu Pro Ser Gln Ile
 1   5   10   15

Trp Ala Phe Pro Val Pro Lys His His Leu Gly Gly Ser Leu Trp Val
            20   25   30

Leu Ile Ser Ser His Met Phe Thr Pro His Val Gly Leu Pro Asn Cys
            35   40   45

5564

```
Pro Pro Gln Gly Lys Pro Phe Leu Pro Thr Ser Arg Lys Leu Leu Val
    50                  55                  60

Pro Trp Pro Ser His Thr Ser Asp Leu Val Pro Leu Pro Gly Pro Val
65              70                  75                  80

Gly Phe Asn Asn Leu Val Ser Ser Leu Pro Arg Asn Pro Leu Cys Leu
                85                  90                  95

Glu Cys Ser Pro Pro Ser Gln Pro Leu Ser His Thr Ile Phe Ser Phe
            100                 105                 110

Leu Ser Ser Thr Lys Arg Trp Asp Lys Pro Val Cys Thr Gln Cys Leu
        115                 120                 125

Trp Asp Asn Arg Arg Arg Asn Leu Glu Phe Gly Trp Val Ile Lys Leu
    130                 135                 140

Trp Asn
145
```

```
<210> 6339
<211> 72
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (65)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6339
Ser Ile Ile Pro Phe Lys Cys Tyr Phe Gln Phe Trp Gly Ile Phe Phe
1               5               10                  15

Phe Trp Ser Phe Cys Cys Xaa Cys Ser Phe Phe Thr Ile Pro Lys Met
            20                  25                  30
```

5565

Leu Gln Gln Ile Phe Phe Tyr Arg Leu Asn Val Ala Tyr Pro Lys Tyr
          35   40   45

Leu Gly Pro Glu Val Leu Gly Ile Ser Asp Phe Gln Ile Arg Asp Xaa
       50   55   60

Xaa Pro Val Tyr Thr Ser Leu His
65   70

<210> 6340
<211> 385
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (176)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (296)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6340
His Leu Asn Val Asp Arg Lys Arg Pro Cys Ser Ile Glu Asp Arg Arg
  1   5   10   15

Asn Trp Ser Leu Ile Gly Arg Pro Gly Ala Pro Ala Ser Gly Leu Asn
          20   25   30

Arg Ser Ser Gly Leu Trp Leu Gly Pro Asp Arg Cys Arg Pro Arg Ser
          35   40   45

Arg Cys Ser Cys Arg Val Met Glu Asn Pro Ser Pro Ala Ala Ala Leu
       50   55   60

Gly Lys Ala Leu Cys Ala Leu Leu Leu Ala Thr Leu Gly Ala Ala Gly
 65   70   75   80

Gln Pro Leu Gly Gly Glu Ser Ile Cys Ser Ala Arg Ala Pro Ala Lys
             85   90   95

Tyr Ser Ile Thr Phe Thr Gly Lys Trp Ser Gln Thr Ala Phe Pro Lys
             100   105   110

Gln Tyr Pro Leu Phe Arg Pro Pro Ala Gln Trp Ser Ser Leu Leu Gly
       115   120   125

5566

Ala Ala His Ser Ser Asp Tyr Ser Met Trp Arg Lys Asn Gln Tyr Val
    130   135   140

Ser Asn Gly Leu Arg Asp Phe Ala Glu Arg Gly Glu Ala Trp Ala Leu
145   150   155   160

Met Lys Glu Ile Glu Ala Ala Gly Glu Ala Leu Gln Ser Val His Xaa
            165   170   175

Val Phe Ser Ala Pro Ala Val Pro Ser Gly Thr Gly Gln Thr Ser Ala
        180   185   190

Glu Leu Glu Val Gln Arg Arg His Ser Leu Val Ser Phe Val Val Arg
    195   200   205

Ile Val Pro Ser Pro Asp Trp Phe Val Gly Val Asp Ser Leu Asp Leu
    210   215   220

Cys Asp Gly Asp Arg Trp Arg Glu Gln Ala Ala Leu Asp Leu Tyr Pro
225   230   235   240

Tyr Asp Ala Gly Thr Asp Ser Gly Phe Thr Phe Ser Ser Pro Asn Phe
            245   250   255

Ala Thr Ile Pro Gln Asp Thr Val Thr Glu Ile Thr Ser Ser Ser Pro
            260   265   270

Ser His Pro Ala Asn Ser Phe Tyr Tyr Pro Arg Leu Lys Ala Leu Pro
    275   280   285

Pro Ile Ala Arg Val Thr Leu Xaa Arg Leu Arg Gln Ser Pro Arg Ala
    290   295   300

Phe Ile Pro Pro Ala Pro Val Leu Pro Ser Arg Asp Asn Glu Ile Val
305   310   315   320

Asp Ser Ala Ser Val Pro Glu Thr Pro Leu Asp Cys Glu Val Ser Leu
            325   330   335

Trp Ser Ser Trp Gly Leu Cys Gly Gly His Cys Gly Arg Leu Gly Thr
            340   345   350

Lys Ser Arg Thr Arg Tyr Val Arg Val Gln Pro Ala Asn Asn Gly Ser
    355   360   365

Pro Cys Pro Glu Leu Glu Glu Glu Ala Glu Cys Val Pro Asp Asn Cys
    370   375   380

Val
385

5567

<210> 6341
<211> 124
<212> PRT
<213> Homo sapiens

<400> 6341
Arg Pro Ala Cys Pro Gly Thr Gly Pro Glu Phe Pro Gly Arg Pro Thr
 1   5   10   15

Arg Pro Pro Thr Arg Pro Pro Thr Arg Pro Pro Thr Arg Pro Leu Cys
             20   25   30

Arg Lys Met Gly Val Pro Tyr Cys Ile Ile Lys Gly Lys Ala Arg Leu
         35   40   45

Gly Arg Leu Val His Arg Lys Thr Cys Thr Thr Val Ala Phe Thr Gln
     50   55   60

Val Asn Ser Glu Asp Lys Gly Ala Leu Ala Lys Leu Val Glu Ala Ile
 65   70   75   80

Arg Thr Asn Tyr Asn Asp Arg Tyr Asp Glu Ile Arg Arg His Trp Gly
                 85   90   95

Gly Asn Val Leu Gly Pro Lys Ser Val Ala Arg Ile Ala Lys Leu Glu
             100   105   110

Lys Ala Lys Ala Lys Glu Leu Ala Thr Lys Leu Gly
         115   120

<210> 6342
<211> 110
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (58)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6342
Ala Trp Lys Arg Arg Arg Glu Val Lys Asp Gln Ser Leu Ile Gly Thr
 1   5   10   15

Gly Ser His Ser Gly Ser Ser Leu Gln Ser Asp Pro His Phe Gly Cys
             20   25   30

5568

```
Ser Leu Gly Pro Ser Ser Gly Pro Arg Ser Ile Arg Leu His Pro Pro
         35                  40                 45

Ser Leu Phe Arg Ile Leu Ser Cys Ala Xaa Pro Thr Pro Gly Ser Arg
      50                  55                 60

Ser Gln Thr Ser Ser His Gly Trp Ser Leu Leu Pro Ser Ala Val Arg
   65                  70                 75                  80

Pro Pro Gly Thr Gln Ala Pro Gly Phe Gly Arg Ser Gly Val Ser Ser
              85                  90                  95

Arg Trp Val Ser Ala Pro Thr Gly Thr Cys Thr Ser Cys Gln
              100                 105                 110
```

<210> 6343
<211> 226
<212> PRT
<213> Homo sapiens

<400> 6343
```
Thr Glu Gly Tyr Gly Cys Gln Lys Thr Thr Glu Gly Tyr Gly Cys Glu
 1               5                  10                  15

Lys Thr Thr Glu Gly Tyr Gly Cys Glu Lys Thr Thr Glu Gly Gly Ser
              20                  25                  30

Ser Ser Phe Ala Pro Arg Val His Gly Ser Ser Phe Ser Phe Pro Leu
         35                  40                 45

Gly Arg Glu Glu Ala Met Ala Ala Met Ala Ser Leu Gly Ala Leu Ala
      50                  55                 60

Leu Leu Leu Leu Ser Ser Leu Ser Arg Cys Ser Ala Glu Ala Cys Leu
   65                  70                 75                  80

Glu Pro Gln Ile Thr Pro Ser Tyr Tyr Thr Thr Ser Asp Ala Val Ile
              85                  90                  95

Ser Thr Glu Thr Val Phe Ile Val Glu Ile Ser Leu Thr Cys Lys Asn
              100                 105                 110

Arg Val Gln Asn Met Ala Leu Tyr Ala Asp Val Gly Gly Lys Gln Phe
         115                 120                 125

Pro Val Thr Arg Gly Gln Asp Val Gly Arg Tyr Gln Val Ser Trp Ser
   130                 135                 140

Leu Asp His Lys Ser Ala His Ala Gly Thr Tyr Glu Val Arg Phe Phe
```

5569

```
145                    150                    155                    160

Asp Glu Glu Ser Tyr Ser Leu Leu Arg Lys Ala Gln Arg Asn Asn Glu
            165                170                175

Asp Ile Ser Ile Ile Pro Pro Leu Phe Thr Val Ser Val Asp His Arg
            180                185                190

Gly Thr Trp Asn Gly Pro Trp Val Ser Thr Glu Val Leu Ala Ala Ala
            195                200                205

Ile Gly Leu Val Ile Tyr Tyr Leu Ala Phe Ser Ala Lys Ser His Ile
    210                215                220

Gln Ala
225
```

<210> 6344
<211> 235
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (185)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6344
```
Ser Pro Arg Pro Leu Arg Phe Cys Gly Gly Ala Arg Ala Arg Arg Pro
    1               5                10                15

Leu Ser Ala Val Ala Arg Pro Ala Arg Ser Ser Asp Pro Leu Arg Ser
                20                25                30

Ala Pro Leu Gly Pro Ala Pro Pro Val Asn Met Ile Arg Cys Gly Leu
            35                40                45

Ala Cys Glu Arg Cys Arg Trp Ile Leu Pro Leu Leu Leu Leu Ser Ala
        50                55                60

Ile Ala Phe Asp Ile Ile Ala Leu Ala Gly Arg Gly Trp Leu Gln Ser
65                  70                75                80

Ser Asp His Gly Gln Thr Ser Ser Leu Trp Trp Lys Cys Ser Gln Glu
                85                90                95

Gly Gly Gly Ser Gly Ser Tyr Glu Glu Gly Cys Gln Ser Leu Met Glu
            100               105               110
```

5570

```
Tyr Ala Trp Gly Arg Ala Ala Ala Ala Met Leu Phe Cys Gly Phe Ile
        115                 120                 125

Ile Leu Val Ile Cys Phe Ile Leu Ser Phe Phe Ala Leu Cys Gly Pro
        130                 135                 140

Gln Met Leu Val Phe Leu Arg Val Ile Gly Gly Leu Leu Ala Leu Ala
145                     150                 155                 160

Ala Val Phe Gln Ile Ile Ser Leu Val Ile Tyr Pro Val Lys Tyr Thr
                165                 170                 175

Gln Thr Phe Thr Leu His Ala Asn Xaa Ala Val Thr Tyr Ile Tyr Asn
                180                 185                 190

Trp Ala Tyr Gly Phe Gly Trp Ala Ala Thr Ile Ile Leu Ile Gly Cys
        195                 200                 205

Ala Phe Phe Phe Cys Cys Leu Pro Asn Tyr Glu Asp Asp Leu Leu Gly
        210                 215                 220

Asn Ala Lys Pro Arg Tyr Phe Tyr Thr Ser Ala
225                 230                 235
```

```
<210> 6345
<211> 88
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (88)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6345
Gly Asn Leu His Gly Ile Leu Arg Asp Phe Tyr Ser Pro Leu Val Pro
 1               5                   10                  15

Asp Ser Met Lys Phe Glu Ile Gly Glu Ala Leu Tyr Leu Gly Ile Ile
                20                  25                  30

Ser Ser Leu Phe Ser Leu Ile Ala Gly Ile Ile Leu Cys Phe Ser Cys
        35                  40                  45

Ser Ser Gln Arg Asn Arg Ser Asn Tyr Tyr Asp Ala Tyr Gln Ala Gln
        50                  55                  60

Pro Leu Ala Thr Arg Ser Ser Pro Arg Pro Gly Gln Pro Pro Lys Val
65                  70                  75                  80
```

5571

Lys Ser Glu Phe Asn Ser Tyr Xaa
                    85

<210> 6346
<211> 105
<212> PRT
<213> Homo sapiens

<400> 6346
Gly Ser Val Ala Gln Ser Arg Pro Ala Tyr Leu Ser Lys Asn Ser Lys
  1   5   10   15

Ser Leu Ser Gln Pro Thr Gly Leu Asn Leu His Trp Lys Pro Thr Cys
              20   25   30

Trp His Pro Arg Ser Pro Thr Leu Leu Ala Trp Val Gly Glu Ala Lys
              35   40   45

Asp His Pro Lys Phe Thr His Leu Ser Ser Ala Ala Ser His Trp Ala
      50   55   60

Ser Ala Ala Pro Gln His Gln Phe Thr Gly His Pro Ser Leu Leu Ala
  65   70   75   80

Leu Ser Pro Asn Leu Leu Ser Ile Pro Arg Ser Asn Leu Pro Leu Arg
                  85   90   95

Ser Ala Arg Asn Ser Phe Arg Pro His
                  100   105

<210> 6347
<211> 105
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

5572

<221> SITE
<222> (63)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6347
Arg Cys Cys Leu Pro Glu Asp Gly Lys Ala Asp Ile Val Arg Ala Ala
 1   5   10   15

Gln Asp Phe Cys Gln Xaa Val Ala Gln Lys Gln Xaa Arg Pro Thr Asp
            20   25   30

Leu Asp Val Asp Thr Leu Ala Ser Leu Leu Ser Ser Asn Gly Cys Pro
        35   40   45

Asp Pro Asp Leu Val Leu Lys Phe Gly Pro Val Asp Ser Thr Xaa Gly
    50   55   60

Phe Leu Pro Trp His Ile Arg Leu Thr Glu Ile Val Ser Leu Pro Ser
65   70   75   80

His Leu Asn Ile Ser Tyr Glu Asp Phe Phe Ser Ala Leu Arg Gln Tyr
                85   90   95

Ala Ala Cys Glu Gln Arg Leu Gly Lys
            100   105

<210> 6348
<211> 81
<212> PRT
<213> Homo sapiens

<400> 6348
Tyr Phe Asp Ile Ser Lys His Leu His Gly Asn His Tyr Ile Asp Pro
 1   5   10   15

Thr Cys Gly Phe Ser Ser Tyr Val His Leu Thr Arg Ile Tyr Tyr Phe
            20   25   30

Arg Tyr Asn Leu Gln Met Ser His Leu Ile Ile Phe Tyr Asn Ile Pro
            35   40   45

Tyr Phe Ile Lys Val Leu Leu Glu Lys Tyr Leu Pro Gln Arg Ser Phe
    50   55   60

Cys His Cys Val Arg Cys Val Phe Glu Pro Thr Met Thr Glu Ser Lys
65   70   75   80

Phe

5573

<210> 6349
<211> 100
<212> PRT
<213> Homo sapiens

<400> 6349
Leu Lys Ile Asn Pro Ser Gly Lys Lys Lys Lys Lys Asn Ser Arg
 1   5   10   15

Gly Gly Pro Val Pro Asn Ser Pro Tyr Ser Glu Ser Tyr Tyr Asn Ser
            20   25   30

Leu Ala Val Val Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val Thr
        35   40   45

Gln Leu Asn Arg Leu Ala Ala His Pro Pro Phe Ala Ser Trp Arg Asn
    50   55   60

Ser Glu Glu Ala Arg Thr Asp Arg Pro Ser Gln Gln Leu Arg Ser Leu
65   70   75   80

Asn Gly Glu Trp Gln Ile Val Ser Val Asn Ile Leu Leu Lys Phe Ala
                85   90   95

Leu Asn Phe Cys
            100

<210> 6350
<211> 231
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

5574

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (102)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (202)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (203)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (230)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6350
Arg Asp Xaa Trp Xaa Ala Ile Pro Asp Thr Ile Asp Xaa Thr Pro Ala
 1   5   10   15

Xaa Thr Gly Pro Glu Phe Pro Gly Arg Pro Thr Arg Pro Pro Ala Pro
            20   25   30

Pro Ala Met Val Val Ser Gly Ala Pro Pro Ala Leu Gly Gly Gly Cys
        35   40   45

Leu Gly Thr Phe Thr Ser Leu Leu Leu Ala Ser Thr Ala Ile Leu
    50   55   60

Asn Ala Ala Arg Ile Pro Val Pro Pro Ala Cys Gly Lys Pro Gln Gln
65   70   75   80

Leu Asn Arg Val Val Gly Gly Glu Asp Ser Thr Asp Ser Glu Trp Pro
            85   90   95

Trp Ile Val Ser Ile Xaa Lys Asn Gly Thr His His Cys Ala Gly Ser
            100   105   110

Leu Leu Thr Ser Arg Trp Val Ile Thr Ala Ala His Cys Phe Lys Asp
        115   120   125

5575

Asn Leu Asn Lys Pro Tyr Leu Phe Ser Val Leu Leu Gly Ala Trp Gln
    130   135   140

Leu Gly Asn Pro Gly Ser Arg Ser Gln Lys Val Gly Val Ala Trp Val
145   150   155   160

Glu Pro His Pro Val Tyr Ser Trp Lys Glu Gly Ala Cys Ala Asp Ile
                165   170   175

Ala Leu Val Arg Leu Glu Arg Ser Ile Gln Phe Ser Glu Arg Val Leu
                180   185   190

Pro Ile Cys Leu Pro Asp Ala Ser Ile Xaa Xaa Pro Pro Asn Thr His
            195   200   205

Cys Trp Ile Ser Gly Trp Gly Ser Ile Gln Asp Gly Val Pro Leu Pro
    210   215   220

Thr Leu Arg Pro Cys Xaa Ser
225   230

<210> 6351
<211> 240
<212> PRT
<213> Homo sapiens

<400> 6351
Gly Phe Pro Gly Thr Gly Ser Gly Gln Gly Ile Arg Pro Thr His Pro
    1   5   10   15

Arg Gly Lys Pro Gly Pro Ser Gly Ala Asp Arg Gly Pro His Gly Pro
                20   25   30

Arg Gly Gly Arg Arg Arg Leu Gly Val Ala Gly Arg Ala Ser Arg Val
        35   40   45

Asp Arg Ala His Ala Ala Ala His Thr Gly Leu Gly Glu Glu Phe
    50   55   60

His Asp Val Glu Asp Ala Glu Thr Tyr Lys Lys Met Leu Ala Arg Asp
65   70   75   80

Glu Arg Arg Phe Arg Val Ala Asp Gln Asp Gly Asp Ser Met Ala Thr
                85   90   95

Arg Glu Glu Leu Thr Ala Phe Leu His Pro Glu Glu Phe Pro His Met
                100   105   110

Arg Asp Ile Val Ile Ala Glu Thr Leu Glu Asp Leu Asp Arg Asn Lys

5576

```
            115                 120                 125
Asp Gly Tyr Val Gln Val Glu Glu Tyr Ile Ala Asp Leu Tyr Ser Ala
        130                 135                 140

Glu Pro Gly Glu Glu Glu Pro Ala Trp Val Gln Thr Glu Arg Gln Gln
145                 150                 155                 160

Phe Arg Asp Phe Arg Asp Leu Asn Lys Asp Gly His Leu Asp Gly Ser
                165                 170                 175

Glu Val Gly His Trp Val Leu Pro Pro Ala Gln Asp Gln Pro Leu Val
            180                 185                 190

Glu Ala Asn His Leu Leu His Glu Ser Asp Thr Asp Lys Asp Gly Arg
        195                 200                 205

Leu Ser Lys Ala Glu Ile Leu Gly Asn Trp Asn Met Phe Val Gly Ser
    210                 215                 220

Gln Ala Thr Asn Tyr Gly Glu Asp Leu Thr Arg His His Asp Glu Leu
225                 230                 235                 240
```

<210> 6352
<211> 505
<212> PRT
<213> Homo sapiens

<400> 6352
```
His Arg Arg Gly Ser Ile Pro Arg Gln Gln Leu Ser Pro Thr Ala Phe
 1               5                  10                  15

Pro Ala Arg Asn His Leu Ser Thr Ile Pro Trp Gly Leu Pro Arg Thr
            20                  25                  30

Ile Glu Glu Leu Arg Leu Asp Asp Asn Arg Ile Ser Thr Ile Ser Ser
            35                  40                  45

Pro Ser Leu Gln Gly Leu Thr Ser Leu Lys Arg Leu Val Leu Asp Gly
    50                  55                  60

Asn Leu Leu Asn Asn His Gly Leu Gly Asp Lys Val Phe Phe Asn Leu
65                  70                  75                  80

Val Asn Leu Thr Glu Leu Ser Leu Val Arg Asn Ser Leu Thr Ala Ala
                85                  90                  95
```

5577

```
Pro Val Asn Leu Pro Gly Thr Asn Leu Arg Lys Leu Tyr Leu Gln Asp
            100              105              110

Asn His Ile Asn Arg Val Pro Pro Asn Ala Phe Ser Tyr Leu Arg Gln
            115              120              125

Leu Tyr Arg Leu Asp Met Ser Asn Asn Asn Leu Ser Asn Leu Pro Gln
    130              135              140

Gly Ile Phe Asp Asp Leu Asp Asn Ile Thr Gln Leu Ile Leu Arg Asn
145              150              155              160

Asn Pro Trp Tyr Cys Gly Cys Lys Met Lys Trp Val Arg Asp Trp Leu
            165              170              175

Gln Ser Leu Pro Val Lys Val Asn Val Arg Gly Leu Met Cys Gln Ala
            180              185              190

Pro Glu Lys Val Arg Gly Met Ala Ile Lys Asp Leu Asn Ala Glu Leu
            195              200              205

Phe Asp Cys Lys Asp Ser Gly Ile Val Ser Thr Ile Gln Ile Thr Thr
    210              215              220

Ala Ile Pro Asn Thr Val Tyr Pro Ala Gln Gly Gln Trp Pro Ala Pro
225              230              235              240

Val Thr Lys Gln Pro Asp Ile Lys Asn Pro Lys Leu Thr Lys Asp Gln
            245              250              255

Gln Thr Thr Gly Ser Pro Ser Arg Lys Thr Ile Thr Ile Thr Val Lys
            260              265              270

Ser Val Thr Ser Asp Thr Ile His Ile Ser Trp Lys Leu Ala Leu Pro
            275              280              285

Met Thr Ala Leu Arg Leu Ser Trp Leu Lys Leu Gly His Ser Pro Ala
    290              295              300

Phe Gly Ser Ile Thr Glu Thr Ile Val Thr Gly Glu Arg Ser Glu Tyr
305              310              315              320

Leu Val Thr Ala Leu Glu Pro Asp Ser Pro Tyr Lys Val Cys Met Val
            325              330              335

Pro Met Glu Thr Ser Asn Leu Tyr Leu Phe Asp Glu Thr Pro Val Cys
            340              345              350

Ile Glu Thr Glu Thr Ala Pro Leu Arg Met Tyr Asn Pro Thr Thr Thr
            355              360              365
```

5578

```
Leu Asn Arg Glu Gln Glu Lys Glu Pro Tyr Lys Asn Pro Asn Leu Pro
    370             375             380

Leu Ala Ala Ile Ile Gly Gly Ala Val Ala Leu Val Thr Ile Ala Leu
385             390             395             400

Leu Ala Leu Val Cys Trp Tyr Val His Arg Asn Gly Ser Leu Phe Ser
            405             410             415

Arg Asn Cys Ala Tyr Ser Lys Gly Arg Arg Arg Lys Asp Asp Tyr Ala
            420             425             430

Glu Ala Gly Thr Lys Lys Asp Asn Ser Ile Leu Glu Ile Arg Glu Thr
        435             440             445

Ser Phe Gln Met Leu Pro Ile Ser Asn Glu Pro Ile Ser Lys Glu Glu
    450             455             460

Phe Val Ile His Thr Ile Phe Pro Pro Asn Gly Met Asn Leu Tyr Lys
465             470             475             480

Asn Asn His Ser Glu Ser Ser Ser Asn Arg Ser Tyr Arg Asp Ser Gly
            485             490             495

Ile Pro Asp Ser Asp His Ser His Ser
        500             505
```

<210> 6353
<211> 719
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (250)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (278)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (647)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

5579

<221> SITE
<222> (650)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6353
Thr Ala Trp Pro Ala Ser Trp Thr Thr Pro Pro Ala Ser Ser Met Ser
 1   5   10   15

Arg Asp Leu Leu Phe Lys His Tyr Cys Tyr Pro Glu Arg Asp Pro Glu
            20   25   30

Glu Val Phe Ala Phe Leu Leu Arg Phe Pro His Val Ala Leu Phe Thr
        35   40   45

Phe Asp Gly Leu Asp Glu Leu His Ser Asp Leu Asp Leu Ser Arg Val
    50   55   60

Pro Asp Ser Ser Cys Pro Trp Glu Pro Ala His Pro Leu Val Leu Leu
65   70   75   80

Ala Asn Leu Leu Ser Gly Lys Leu Leu Lys Gly Ala Ser Lys Leu Leu
            85   90   95

Thr Ala Arg Thr Gly Ile Glu Val Pro Arg Gln Phe Leu Arg Lys Lys
            100   105   110

Val Leu Leu Arg Gly Phe Ser Pro Ser His Leu Arg Ala Tyr Ala Arg
            115   120   125

Arg Met Phe Pro Glu Arg Ala Leu Gln Asp Arg Leu Leu Ser Gln Leu
    130   135   140

Glu Ala Asn Pro Asn Leu Cys Ser Leu Cys Ser Val Pro Leu Phe Cys
145   150   155   160

Trp Ile Ile Phe Arg Cys Phe Gln His Phe Arg Ala Ala Phe Glu Gly
            165   170   175

Ser Pro Gln Leu Pro Asp Cys Thr Met Thr Leu Thr Asp Val Phe Leu
            180   185   190

Leu Val Thr Glu Val His Leu Asn Arg Met Gln Pro Ser Ser Leu Val
            195   200   205

Gln Arg Asn Thr Arg Ser Pro Val Glu Thr Leu His Ala Gly Arg Asp
    210   215   220

Thr Leu Cys Ser Leu Gly Gln Val Ala His Arg Gly Met Glu Lys Ser
225   230   235   240

Leu Phe Val Phe Thr Gln Glu Glu Val Xaa Ala Ser Gly Leu Gln Glu

5580

```
                    245                    250                     255

Arg Asp Met Gln Leu Gly Phe Leu Arg Ala Leu Pro Glu Leu Gly Pro
            260                 265                 270

Gly Gly Asp Gln Gln Xaa Tyr Glu Phe Phe His Leu Thr Leu Gln Ala
            275                 280                 285

Phe Phe Thr Ala Phe Phe Leu Val Leu Asp Asp Arg Val Gly Thr Gln
    290                 295                 300

Glu Leu Leu Arg Phe Phe Gln Glu Trp Met Pro Pro Ala Gly Ala Ala
305                 310                 315                 320

Thr Thr Ser Cys Tyr Pro Pro Phe Leu Pro Phe Gln Cys Leu Gln Gly
            325                 330                 335

Ser Gly Pro Ala Arg Glu Asp Leu Phe Lys Asn Lys Asp His Phe Gln
            340                 345                 350

Phe Thr Asn Leu Phe Leu Cys Gly Leu Leu Ser Lys Ala Lys Gln Lys
            355                 360                 365

Leu Leu Arg His Leu Val Pro Ala Ala Ala Leu Arg Arg Lys Arg Lys
    370                 375                 380

Ala Leu Trp Ala His Leu Phe Ser Ser Leu Arg Gly Tyr Leu Lys Ser
385                 390                 395                 400

Leu Pro Arg Val Gln Val Glu Ser Phe Asn Gln Val Gln Ala Met Pro
            405                 410                 415

Thr Phe Ile Trp Met Leu Arg Cys Ile Tyr Glu Thr Gln Ser Gln Lys
            420                 425                 430

Val Gly Gln Leu Ala Ala Arg Gly Ile Cys Ala Asn Tyr Leu Lys Leu
            435                 440                 445

Thr Tyr Cys Asn Ala Cys Ser Ala Asp Cys Ser Ala Leu Ser Phe Val
    450                 455                 460

Leu His His Phe Pro Lys Arg Leu Ala Leu Asp Leu Asp Asn Asn Asn
465                 470                 475                 480

Leu Asn Asp Tyr Gly Val Arg Glu Leu Gln Pro Cys Phe Ser Arg Leu
            485                 490                 495

Thr Val Leu Arg Leu Ser Val Asn Gln Ile Thr Asp Gly Gly Val Lys
            500                 505                 510

Val Leu Ser Glu Glu Leu Thr Lys Tyr Lys Ile Val Thr Tyr Leu Gly
```

5581

```
         515                  520                    525

Leu Tyr Asn Asn Gln Ile Thr Asp Val Gly Ala Arg Tyr Val Thr Lys
    530                  535                  540

Ile Leu Asp Glu Cys Lys Gly Leu Thr His Leu Lys Leu Gly Lys Asn
545                  550                  555                  560

Lys Ile Thr Ser Glu Gly Gly Lys Tyr Leu Ala Leu Ala Val Lys Asn
                565                  570                  575

Ser Lys Ser Ile Ser Glu Val Gly Met Trp Gly Asn Gln Val Gly Asp
                580                  585                  590

Glu Gly Ala Lys Ala Phe Ala Glu Ala Leu Arg Asn His Pro Ser Leu
        595                  600                  605

Thr Thr Leu Ser Leu Ala Ser Asn Gly Ile Ser Thr Glu Gly Gly Lys
    610                  615                  620

Ser Leu Ala Arg Ala Leu Gln Gln Asn Thr Ser Leu Glu Ile Leu Trp
625                  630                  635                  640

Leu Thr Gln Asn Glu Leu Xaa Asp Glu Xaa Ala Glu Ser Leu Ala Glu
                645                  650                  655

Met Leu Lys Val Asn Gln Thr Leu Lys His Leu Trp Leu Ile Gln Asn
                660                  665                  670

Gln Ile Thr Ala Lys Gly Thr Ala Gln Leu Ala Asp Ala Leu Gln Ser
        675                  680                  685

Asn Thr Gly Ile Thr Glu Ile Cys Leu Asn Gly Asn Leu Ile Lys Pro
    690                  695                  700

Glu Glu Ala Lys Val Tyr Glu Asp Glu Lys Arg Ile Ile Cys Phe
705                  710                  715
```

<210> 6354
<211> 729
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

5582

<221> SITE
<222> (196)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6354
Leu Ser Pro Leu Lys Leu Tyr Ala Gln Val Cys Arg Tyr Asp Leu Gly
 1   5   10   15

Pro Tyr Leu Ala Ser Leu Pro Leu Asp Ser Ser Leu Leu Xaa Gln Pro
               20   25   30

Asn Leu Val Ala Pro Thr Ser Gln Ser Leu Ile Thr Pro Pro Gln Met
           35   40   45

Thr Asn Thr Gly Asn Ala Asn Thr Pro Ser Ala Thr Leu Ala Ser Ala
       50   55   60

Ala Ser Ser Thr Met Thr Val Thr Ser Gly Val Ala Ile Ser Thr Ser
 65   70   75   80

Val Ala Thr Ala Asn Ser Thr Leu Thr Thr Ala Ser Thr Ser Ser Ser
               85   90   95

Ser Ser Ser Asn Leu Asn Ser Gly Val Ser Ser Asn Lys Leu Pro Ser
           100   105   110

Phe Pro Pro Phe Gly Ser Met Asn Ser Asn Ala Ala Gly Ser Met Ser
           115   120   125

Thr Gln Ala Asn Thr Val Gln Ser Gly Gln Leu Gly Gly Gln Gln Thr
       130   135   140

Ser Ala Leu Gln Thr Ala Gly Ile Ser Gly Glu Ser Ser Ser Leu Pro
145   150   155   160

Thr Gln Pro His Pro Asp Val Ser Glu Ser Thr Met Asp Arg Asp Lys
               165   170   175

Val Gly Ile Pro Thr Asp Gly Asp Ser His Ala Val Thr Tyr Pro Pro
               180   185   190

Ala Ile Val Xaa Tyr Ile Ile Asp Pro Phe Thr Tyr Glu Asn Thr Asp
           195   200   205

Glu Ser Thr Asn Ser Ser Ser Val Trp Thr Leu Gly Leu Leu Arg Cys
       210   215   220

Phe Leu Glu Met Val Gln Thr Leu Pro Pro His Ile Lys Ser Thr Val
225   230   235   240

Ser Val Gln Ile Ile Pro Cys Gln Tyr Leu Leu Gln Pro Val Lys His

5583

```
                    245              250                  255

Glu Asp Arg Glu Ile Tyr Pro Gln His Leu Lys Ser Leu Ala Phe Ser
            260              265              270

Ala Phe Thr Gln Cys Arg Arg Pro Leu Pro Thr Ser Thr Asn Val Lys
            275              280              285

Thr Leu Thr Gly Phe Gly Pro Gly Leu Ala Met Glu Thr Ala Leu Arg
        290              295              300

Ser Pro Asp Arg Pro Glu Cys Ile Arg Leu Tyr Ala Pro Pro Phe Ile
305              310              315              320

Leu Ala Pro Val Lys Asp Lys Gln Thr Glu Leu Gly Glu Thr Phe Gly
                325              330              335

Glu Ala Gly Gln Lys Tyr Asn Val Leu Phe Val Gly Tyr Cys Leu Ser
            340              345              350

His Asp Gln Arg Trp Ile Leu Ala Ser Cys Thr Asp Leu Tyr Gly Glu
            355              360              365

Leu Leu Glu Thr Cys Ile Ile Asn Ile Asp Val Pro Asn Arg Ala Arg
        370              375              380

Arg Lys Lys Ser Ser Ala Arg Lys Phe Gly Leu Gln Lys Leu Trp Glu
385                  390              395              400

Trp Cys Leu Gly Leu Val Gln Met Ser Ser Leu Pro Trp Arg Val Val
                405              410              415

Ile Gly Arg Leu Gly Arg Ile Gly His Gly Glu Leu Lys Asp Trp Ser
            420              425              430

Cys Leu Leu Ser Arg Arg Asn Leu Gln Ser Leu Ser Lys Arg Leu Lys
        435              440              445

Asp Met Cys Arg Met Cys Gly Ile Ser Ala Ala Asp Ser Pro Ser Ile
    450              455              460

Leu Ser Ala Cys Leu Val Ala Met Glu Pro Gln Gly Ser Phe Val Ile
465              470              475              480

Met Pro Asp Ser Val Ser Thr Gly Ser Val Phe Gly Arg Ser Thr Thr
            485              490              495

Leu Asn Met Gln Thr Ser Gln Leu Asn Thr Pro Gln Asp Thr Ser Cys
        500              505              510

Thr His Ile Leu Val Phe Pro Thr Ser Ala Ser Val Gln Val Ala Ser
```

5584

```
            515                    520                    525

Ala Thr Tyr Thr Thr Glu Asn Leu Asp Leu Ala Phe Asn Pro Asn Asn
    530                535                540

Asp Gly Ala Asp Gly Met Gly Ile Phe Asp Leu Leu Asp Thr Gly Asp
545                550                555                560

Asp Leu Asp Pro Asp Ile Ile Asn Ile Leu Pro Ala Ser Pro Thr Gly
                565                570                575

Ser Pro Val His Ser Pro Gly Ser His Tyr Pro His Gly Gly Asp Ala
                580                585                590

Gly Lys Gly Gln Ser Thr Asp Arg Leu Leu Ser Thr Glu Pro His Glu
                595                600                605

Glu Val Pro Asn Ile Leu Gln Gln Pro Leu Ala Leu Gly Tyr Phe Val
    610                615                620

Ser Thr Ala Lys Ala Gly Pro Leu Pro Asp Trp Phe Trp Ser Ala Cys
625                630                635                640

Pro Gln Ala Gln Tyr Gln Cys Pro Leu Phe Leu Lys Ala Ser Leu His
                645                650                655

Leu His Val Pro Ser Val Gln Ser Asp Glu Leu Leu His Ser Lys His
                660                665                670

Ser His Pro Leu Asp Ser Asn Gln Thr Ser Asp Val Leu Arg Phe Val
                675                680                685

Leu Glu Gln Tyr Asn Ala Leu Ser Trp Leu Thr Cys Asp Pro Ala Thr
    690                695                700

Gln Asp Arg Arg Ser Cys Leu Pro Ile His Phe Val Val Leu Asn Gln
705                710                715                720

Leu Tyr Asn Phe Ile Met Asn Met Leu
                725
```

```
<210> 6355
<211> 552
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (47)
```

5585

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6355

```
Val Ser Leu Thr Arg Arg Glu Gly Thr Gly Pro Arg Pro Arg Ala Ala
 1               5                  10              15

Gly Ala Gly Ala Arg His Val His Arg Leu Gly Arg Glu Val Ala Ile
            20                  25                  30

Ala Glu Arg Gln Glu Gly Arg Gly Gly Pro Gly Arg Arg Pro Xaa Val
            35                  40                  45

Gly Arg Arg Trp Gly Arg Pro Ala Arg Leu His Leu Arg Ala His Gly
    50                  55                  60

Pro Arg Pro Ser Val Arg Thr Gly Leu Pro Ser Val Gly Arg Gln Ala
65                  70                  75                  80

Ala Gly Ala Ala Met Gly Arg Gly Trp Gly Phe Leu Phe Gly Leu Leu
            85                  90                  95

Gly Ala Val Trp Leu Leu Ser Ser Gly His Gly Glu Glu Gln Pro Pro
            100             105             110

Glu Thr Ala Ala Gln Arg Cys Phe Cys Gln Val Ser Gly Tyr Leu Asp
            115             120             125

Asp Cys Thr Cys Asp Val Glu Thr Ile Asp Arg Phe Asn Asn Tyr Arg
    130             135             140

Leu Phe Pro Arg Leu Gln Lys Leu Leu Glu Ser Asp Tyr Phe Arg Tyr
145             150             155             160

Tyr Lys Val Asn Leu Lys Arg Pro Cys Pro Phe Trp Asn Asp Ile Ser
            165             170             175

Gln Cys Gly Arg Arg Asp Cys Ala Val Lys Pro Cys Gln Ser Asp Glu
            180             185             190

Val Pro Asp Gly Ile Lys Ser Ala Ser Tyr Lys Tyr Ser Glu Glu Ala
            195             200             205

Asn Asn Leu Ile Glu Glu Cys Glu Gln Ala Glu Arg Leu Gly Ala Val
    210             215             220

Asp Glu Ser Leu Ser Glu Glu Thr Gln Lys Ala Val Leu Gln Trp Thr
225             230             235             240

Lys His Asp Asp Ser Ser Asp Asn Phe Cys Glu Ala Asp Asp Ile Gln
            245             250             255
```

5586

```
Ser Pro Glu Ala Glu Tyr Val Asp Leu Leu Leu Asn Pro Glu Arg Tyr
        260                 265                 270

Thr Gly Tyr Lys Gly Pro Asp Ala Trp Lys Ile Trp Asn Val Ile Tyr
        275                 280                 285

Glu Glu Asn Cys Phe Lys Pro Gln Thr Ile Lys Arg Pro Leu Asn Pro
    290                 295                 300

Leu Ala Ser Gly Gln Gly Thr Ser Glu Glu Asn Thr Phe Tyr Ser Trp
305                 310                 315                 320

Leu Glu Gly Leu Cys Val Glu Lys Arg Ala Phe Tyr Arg Leu Ile Ser
                325                 330                 335

Gly Leu His Ala Ser Ile Asn Val His Leu Ser Ala Arg Tyr Leu Leu
        340                 345                 350

Gln Glu Thr Trp Leu Glu Lys Lys Trp Gly His Asn Ile Thr Glu Phe
        355                 360                 365

Gln Gln Arg Phe Asp Gly Ile Leu Thr Glu Gly Glu Gly Pro Arg Arg
    370                 375                 380

Leu Lys Asn Leu Tyr Phe Leu Tyr Leu Ile Glu Leu Arg Ala Leu Ser
385                 390                 395                 400

Lys Val Leu Pro Phe Phe Glu Arg Pro Asp Phe Gln Leu Phe Thr Gly
                405                 410                 415

Asn Lys Ile Gln Asp Glu Glu Asn Lys Met Leu Leu Leu Glu Ile Leu
        420                 425                 430

His Glu Ile Lys Ser Phe Pro Leu His Phe Asp Glu Asn Ser Phe Phe
        435                 440                 445

Ala Gly Asp Lys Lys Glu Ala His Lys Leu Lys Glu Asp Phe Arg Leu
    450                 455                 460

His Phe Arg Asn Ile Ser Arg Ile Met Asp Cys Val Gly Cys Phe Lys
465                 470                 475                 480

Cys Arg Leu Trp Gly Lys Leu Gln Thr Gln Gly Leu Gly Thr Ala Leu
                485                 490                 495

Lys Ile Leu Phe Ser Glu Lys Leu Ile Ala Asn Met Pro Glu Ser Gly
                500                 505                 510

Pro Ser Tyr Glu Phe His Leu Thr Arg Gln Glu Ile Val Ser Leu Phe
            515                 520                 525
```

5587

Asn Ala Phe Gly Arg Ile Ser Thr Ser Val Lys Glu Leu Glu Asn Phe
    530   535   540

Arg Asn Leu Leu Gln Asn Ile His
545   550

<210> 6356
<211> 481
<212> PRT
<213> Homo sapiens

<400> 6356
Ala Thr Asn Arg Val Val Ala Pro Thr Pro Gly Pro Gly Thr Pro Ala
    1   5   10   15

Glu Arg His Ala Asp Gly Leu Ala Leu Ala Leu Glu Pro Ala Leu Ala
            20   25   30

Ser Pro Ala Gly Ala Ala Asn Phe Leu Ala Met Val Asp Asn Leu Gln
        35   40   45

Gly Asp Ser Gly Arg Gly Tyr Tyr Leu Glu Met Leu Ile Gly Thr Pro
        50   55   60

Pro Gln Lys Leu Gln Ile Leu Val Asp Thr Gly Ser Ser Asn Phe Ala
65   70   75   80

Val Ala Gly Thr Pro His Ser Tyr Ile Asp Thr Tyr Phe Asp Thr Glu
            85   90   95

Arg Ser Ser Thr Tyr Arg Ser Lys Gly Phe Asp Val Thr Val Lys Tyr
            100   105   110

Thr Gln Gly Ser Trp Thr Gly Phe Val Gly Glu Asp Leu Val Thr Ile
        115   120   125

Pro Lys Gly Phe Asn Thr Ser Phe Leu Val Asn Ile Ala Thr Ile Phe
    130   135   140

Glu Ser Glu Asn Phe Phe Leu Pro Gly Ile Lys Trp Asn Gly Ile Leu
145   150   155   160

Gly Leu Ala Tyr Ala Thr Leu Ala Lys Pro Ser Ser Ser Leu Glu Thr
            165   170   175

Phe Phe Asp Ser Leu Val Thr Gln Ala Asn Ile Pro Asn Val Phe Ser
            180   185   190

Met Gln Met Cys Gly Ala Gly Leu Pro Val Ala Gly Ser Gly Thr Asn

5588

```
           195                      200                      205

Gly Gly Ser Leu Val Leu Gly Gly Ile Glu Pro Ser Leu Tyr Lys Gly
    210                  215                  220

Asp Ile Trp Tyr Thr Pro Ile Lys Glu Glu Trp Tyr Tyr Gln Ile Glu
225                  230                  235                  240

Ile Leu Lys Leu Glu Ile Gly Gly Gln Ser Leu Asn Leu Asp Cys Arg
                245                  250                  255

Glu Tyr Asn Ala Asp Lys Ala Ile Val Asp Ser Gly Thr Thr Leu Leu
            260                  265                  270

Arg Leu Pro Gln Lys Val Phe Asp Ala Val Val Glu Ala Val Ala Arg
            275                  280                  285

Ala Ser Leu Ile Pro Glu Phe Ser Asp Gly Phe Trp Thr Gly Ser Gln
    290                  295                  300

Leu Ala Cys Trp Thr Asn Ser Glu Thr Pro Trp Ser Tyr Phe Pro Lys
305                  310                  315                  320

Ile Ser Ile Tyr Leu Arg Asp Glu Asn Ser Ser Arg Ser Phe Arg Ile
            325                  330                  335

Thr Ile Leu Pro Gln Leu Tyr Ile Gln Pro Met Met Gly Ala Gly Leu
            340                  345                  350

Asn Tyr Glu Cys Tyr Arg Phe Gly Ile Ser Pro Ser Thr Asn Ala Leu
            355                  360                  365

Val Ile Gly Ala Thr Val Met Glu Gly Phe Tyr Val Ile Phe Asp Arg
    370                  375                  380

Ala Gln Lys Arg Val Gly Phe Ala Ala Ser Pro Cys Ala Glu Ile Ala
385                  390                  395                  400

Gly Ala Ala Val Ser Glu Ile Ser Gly Pro Phe Ser Thr Glu Asp Val
                405                  410                  415

Ala Ser Asn Cys Val Pro Ala Gln Ser Leu Ser Glu Pro Ile Leu Trp
            420                  425                  430

Ile Val Ser Tyr Ala Leu Met Ser Val Cys Gly Ala Ile Leu Leu Val
            435                  440                  445

Leu Ile Val Leu Leu Leu Leu Pro Phe Arg Cys Gln Arg Arg Pro Arg
    450                  455                  460

Asp Pro Glu Val Val Asn Asp Glu Ser Ser Leu Val Arg His Arg Trp
```

5589

465   470   475   480

Lys

<210> 6357
<211> 441
<212> PRT
<213> Homo sapiens

<400> 6357
Gly Gly Ser Trp Cys Arg Ser Ser Pro Gly Arg Asp Gly Ser Pro Gly
 1   5   10   15

Ala Lys Gly Asp Arg Gly Glu Thr Gly Pro Ala Gly Pro Pro Gly Ala
            20   25   30

Pro Gly Ala Pro Gly Ala Pro Gly Pro Val Gly Pro Ala Gly Lys Ser
        35   40   45

Gly Asp Arg Gly Glu Thr Gly Pro Ala Gly Pro Ala Gly Pro Val Gly
    50   55   60

Pro Val Gly Ala Arg Gly Pro Ala Gly Pro Gln Gly Pro Arg Gly Asp
65   70   75   80

Lys Gly Glu Thr Gly Glu Gln Gly Asp Arg Gly Ile Lys Gly His Arg
                85   90   95

Gly Phe Ser Gly Leu Gln Gly Pro Pro Gly Pro Pro Gly Ser Pro Gly
            100   105   110

Glu Gln Gly Pro Ser Gly Ala Ser Gly Pro Ala Gly Pro Arg Gly Pro
        115   120   125

Pro Gly Ser Ala Gly Ala Pro Gly Lys Asp Gly Leu Asn Gly Leu Pro
    130   135   140

Gly Pro Ile Gly Pro Pro Gly Pro Arg Gly Arg Thr Gly Asp Ala Gly
145   150   155   160

Pro Val Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro
                165   170   175

Pro Ser Ala Gly Phe Asp Phe Ser Phe Leu Pro Gln Pro Pro Gln Glu
            180   185   190

Lys Ala His Asp Gly Gly Arg Tyr Tyr Arg Ala Asp Asp Ala Asn Val
        195   200   205

5590

Val Arg Asp Arg Asp Leu Glu Val Asp Thr Thr Leu Lys Ser Leu Ser
    210   215   220

Gln Gln Ile Glu Asn Ile Arg Ser Pro Glu Gly Ser Arg Lys Asn Pro
225   230   235   240

Ala Arg Thr Cys Arg Asp Leu Lys Met Cys His Ser Asp Trp Lys Ser
            245   250   255

Gly Glu Tyr Trp Ile Asp Pro Asn Gln Gly Cys Asn Leu Asp Ala Ile
            260   265   270

Lys Val Phe Cys Asn Met Glu Thr Gly Glu Thr Cys Val Tyr Pro Thr
        275   280   285

Gln Pro Ser Val Ala Gln Lys Asn Trp Tyr Ile Ser Lys Asn Pro Lys
    290   295   300

Asp Lys Arg His Val Trp Phe Gly Glu Ser Met Thr Asp Gly Phe Gln
305   310   315   320

Phe Glu Tyr Gly Gly Gln Gly Ser Asp Pro Ala Asp Val Ala Ile Gln
            325   330   335

Leu Thr Phe Leu Arg Leu Met Ser Thr Glu Ala Ser Gln Asn Ile Thr
            340   345   350

Tyr His Cys Lys Asn Ser Val Ala Tyr Met Asp Gln Gln Thr Gly Asn
        355   360   365

Leu Lys Lys Ala Leu Leu Leu Gln Gly Ser Asn Glu Ile Glu Ile Arg
    370   375   380

Ala Glu Gly Asn Ser Arg Phe Thr Tyr Ser Val Thr Val Asp Gly Cys
385   390   395   400

Thr Ser His Thr Gly Ala Trp Gly Lys Thr Val Ile Glu Tyr Lys Thr
            405   410   415

Thr Lys Thr Ser Arg Leu Pro Ile Ile Asp Val Ala Pro Leu Asp Val
            420   425   430

Gly Ala Pro Asp Gln Glu Phe Gly Phe
            435   440

<210> 6358
<211> 458
<212> PRT

5591

<213> Homo sapiens

<220>
<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6358

```
Arg Arg Ser Pro Leu Thr Ala Pro Leu Thr Thr Thr Asn Pro Tyr Ser
 1               5                  10                  15

Thr Arg Leu Val Cys Pro Thr Leu Gly Asp Ala Glu Pro Gln Pro Arg
             20              25                  30

Pro Arg Pro Lys His Ser Phe Asn Trp Tyr Cys Gly Xaa Arg Gly Phe
         35              40                  45

Cys Leu Leu Gln Leu Ala Pro Ala Ala Gly Arg Ser Cys Asp Ser Ala
     50              55                  60

Glu Ser Arg Arg Arg Val Leu Val Leu Thr Arg Arg Ala Met Thr Val
65                  70                  75                  80

Ala Arg Pro Ser Val Pro Ala Ala Leu Pro Leu Leu Gly Glu Leu Pro
             85              90                  95

Arg Leu Leu Leu Leu Val Leu Leu Cys Leu Pro Ala Val Trp Gly Asp
         100             105                 110

Cys Gly Leu Pro Pro Asp Val Pro Asn Ala Gln Pro Ala Leu Glu Gly
         115             120                 125

Arg Thr Ser Phe Pro Glu Asp Thr Val Ile Thr Tyr Lys Cys Glu Glu
     130             135                 140

Ser Phe Val Lys Ile Pro Gly Glu Lys Asp Ser Val Ile Cys Leu Lys
145             150                 155                 160

Gly Ser Gln Trp Ser Asp Ile Glu Glu Phe Cys Asn Arg Ser Cys Glu
             165             170                 175

Val Pro Thr Arg Leu Asn Ser Ala Ser Leu Lys Gln Pro Tyr Ile Thr
             180             185                 190

Gln Asn Tyr Phe Pro Val Gly Thr Val Val Glu Tyr Glu Cys Arg Pro
         195             200             205

Gly Tyr Arg Arg Glu Pro Ser Leu Ser Pro Lys Leu Thr Cys Leu Gln
     210             215             220

Asn Leu Lys Trp Ser Thr Ala Val Glu Phe Cys Lys Lys Lys Ser Cys
```

5592

225   230   235   240

Pro Asn Pro Gly Glu Ile Arg Asn Gly Gln Ile Asp Val Pro Gly Gly
            245   250   255

Ile Leu Phe Gly Ala Thr Ile Ser Phe Ser Cys Asn Thr Gly Tyr Lys
            260   265   270

Leu Phe Gly Ser Thr Ser Ser Phe Cys Leu Ile Ser Gly Ser Ser Val
            275   280   285

Gln Trp Ser Asp Pro Leu Pro Glu Cys Arg Glu Ile Tyr Cys Pro Ala
        290   295   300

Pro Pro Gln Ile Asp Asn Gly Ile Ile Gln Gly Glu Arg Asp His Tyr
305   310   315   320

Gly Tyr Arg Gln Ser Val Thr Tyr Ala Cys Asn Lys Gly Phe Thr Met
            325   330   335

Ile Gly Glu His Ser Ile Tyr Cys Thr Val Asn Asn Asp Glu Gly Glu
            340   345   350

Trp Ser Gly Pro Pro Pro Glu Cys Arg Gly Lys Ser Leu Thr Ser Lys
            355   360   365

Val Pro Pro Thr Val Gln Lys Pro Thr Thr Val Asn Val Pro Thr Thr
    370   375   380

Glu Val Ser Pro Thr Ser Gln Lys Thr Thr Thr Lys Thr Thr Thr Pro
385   390   395   400

Asn Ala Gln Ala Thr Arg Ser Thr Pro Val Ser Arg Thr Thr Lys His
            405   410   415

Phe His Glu Thr Thr Pro Asn Lys Gly Ser Gly Thr Thr Ser Gly Thr
            420   425   430

Thr Arg Leu Leu Ser Gly His Thr Cys Phe Thr Leu Thr Gly Leu Leu
        435   440   445

Gly Thr Leu Val Thr Met Gly Leu Leu Thr
    450   455

<210> 6359
<211> 133
<212> PRT
<213> Homo sapiens

5593

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6359
Thr Asn His Ala Asn Val Asn Glu Gly Xaa Val Pro Xaa Xaa Met Leu
  1   5   10   15

Val Ala Asn Asp Gln Met Ala Leu Gly Ala Met Arg Ala Ile Thr Glu
             20   25   30

Ser Gly Leu Arg Val Gly Ala Asp Ile Ser Val Val Gly Tyr Asp Asp
         35   40   45

Thr Glu Asp Ser Ser Cys Tyr Ile Pro Pro Leu Thr Thr Ile Lys Gln
     50   55   60

Asp Phe Arg Leu Leu Gly Gln Thr Ser Val Asp Arg Leu Leu Gln Leu
 65   70   75   80

Ser Gln Gly Gln Ala Val Lys Gly Asn Gln Leu Leu Pro Val Ser Leu
             85   90   95

Val Lys Arg Lys Thr Thr Leu Ala Pro Asn Thr Gln Thr Ala Ser Pro
             100   105   110

Arg Ala Leu Ala Asp Ser Leu Met Gln Leu Ala Arg Gln Val Ser Arg
             115   120   125

Leu Glu Ser Gly Gln
     130

<210> 6360
<211> 332
<212> PRT
<213> Homo sapiens

<220>

5594

<221> SITE
<222> (199)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (255)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6360
Arg Glu Gln Lys Leu Glu Leu His Arg Gly Gly Gly Arg Ser Arg Thr
 1   5   10   15

Ser Gly Ser Pro Gly Leu Gln Glu Phe Gly Thr Ser Arg Ala Pro Ala
             20   25   30

Ser Cys Pro Ser Arg Gln Glu Glu Trp Gly Leu Thr Ser Thr Ser Val
         35   40   45

Leu Lys Arg Glu Ala Pro Ala Gly Arg Asp Pro Glu Glu Pro Gly Asp
     50   55   60

Val Gly Ala Gly Asp Pro Asn Ser Asp Gln Gly Leu Pro Val Leu Met
 65   70   75   80

Thr Gln Gly Thr Glu Asp Leu Lys Gly Pro Gly Gln Arg Cys Glu Asn
                 85   90   95

Glu Pro Leu Leu Asp Pro Val Gly Pro Glu Pro Leu Gly Pro Glu Ser
             100   105   110

Gln Ser Gly Lys Gly Asp Met Val Glu Met Ala Thr Arg Phe Gly Ser
         115   120   125

Thr Leu Gln Leu Asp Leu Glu Lys Gly Lys Glu Ser Leu Leu Glu Lys
     130   135   140

Arg Leu Val Ala Glu Glu Glu Glu Asp Glu Glu Glu Val Glu Glu Asp
145   150   155   160

Gly Pro Ser Ser Cys Ser Glu Asp Asp Tyr Ser Glu Leu Leu Gln Glu
                 165   170   175

Ile Thr Asp Asn Leu Thr Lys Lys Glu Ile Gln Ile Glu Lys Ile His
             180   185   190

Leu Asp Thr Ser Ser Phe Xaa Glu Glu Leu Pro Gly Glu Lys Asp Leu
         195   200   205

Ala His Val Val Glu Ile Tyr Asp Phe Glu Pro Ala Leu Lys Thr Glu
     210   215   220

5595

Asp Leu Leu Ala Thr Phe Ser Glu Phe Gln Glu Lys Gly Phe Arg Ile
225   230   235   240

Gln Trp Val Asp Asp Thr His Ala Leu Gly Ile Phe Pro Cys Xaa Ala
                245   250   255

Ser Ala Ala Glu Ala Leu Thr Arg Glu Phe Ser Val Leu Lys Ile Arg
            260   265   270

Pro Leu Thr Gln Gly Thr Lys Gln Ser Lys Leu Lys Ala Leu Gln Arg
            275   280   285

Pro Lys Leu Leu Arg Leu Val Lys Glu Arg Pro Gln Thr Asn Ala Thr
        290   295   300

Val Ala Arg Arg Leu Val Ala Arg Ala Leu Gly Leu Gln His Lys Lys
305   310   315   320

Lys Glu Arg Pro Ala Val Arg Gly Pro Leu Pro Pro
                325   330

<210> 6361
<211> 258
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (140)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6361
Pro Gly Arg Gly Phe Gln Arg Phe Phe Lys Ala Val Glu Pro Lys Trp
  1   5   10   15

Asp Leu Lys Thr Asp Trp Gln Ile Ile Ser Glu Ile Ala Thr Arg Met
            20   25   30

Gly Tyr Pro Met His Tyr Asn Asn Thr Gln Glu Ile Trp Asp Glu Leu
            35   40   45

Arg His Leu Cys Pro Asp Phe Tyr Gly Ala Thr Tyr Glu Lys Met Gly
        50   55   60

Glu Leu Gly Phe Ile Gln Trp Pro Cys Arg Asp Thr Ser Asp Ala Asp
  65   70   75   80

Gln Gly Thr Ser Tyr Leu Phe Lys Glu Lys Phe Asp Thr Pro Asn Gly

5596

```
              85                    90                    95

Leu Ala Gln Phe Phe Thr Cys Asp Trp Val Ala Pro Ile Asp Lys Leu
            100               105               110

Thr Asp Glu Tyr Pro Met Val Leu Ser Thr Val Arg Glu Val Gly His
            115               120               125

Tyr Ser Cys Arg Ser Met Thr Gly Asn Cys Ala Xaa Leu Ala Ala Leu
        130               135               140

Ala Asp Glu Pro Gly Tyr Ala Gln Ile Asn Thr Glu Asp Ala Lys Arg
145               150               155               160

Leu Gly Ile Glu Asp Glu Ala Leu Val Trp Val His Ser Arg Lys Gly
                165               170               175

Lys Ile Ile Thr Arg Ala Gln Val Ser Asp Arg Pro Asn Lys Gly Ala
            180               185               190

Ile Tyr Met Thr Tyr Gln Trp Trp Ile Gly Ala Cys Asn Glu Leu Val
            195               200               205

Thr Glu Asn Leu Ser Pro Ile Thr Lys Thr Pro Glu Tyr Lys Tyr Cys
        210               215               220

Ala Val Arg Val Glu Pro Ile Ala Asp Gln Arg Ala Ala Glu Gln Tyr
225               230               235               240

Val Ile Asp Glu Tyr Asn Lys Leu Lys Thr Arg Leu Arg Glu Ala Ala
                245               250               255

Leu Ala
```

```
<210> 6362
<211> 38
<212> PRT
<213> Homo sapiens

<400> 6362
Phe Cys Ile Phe Leu Val Glu Thr Gly Phe Leu His Val Gly Gln Gly
    1           5               10               15

Ser Pro Glu Leu Leu Thr Ser Ser Asp Leu Pro Ala Ser Ala Ser Gln
            20               25               30

Val Leu Gly Leu Gln Ala
            35
```

<210> 6363
<211> 232
<212> PRT
<213> Homo sapiens

<400> 6363
Leu Pro Val Pro Gly Arg Gly Arg Val Phe Phe Glu Asp Leu Gly Leu
 1   5   10   15

Arg Asp Thr Val Arg Met Ala Val Val Pro Leu Leu Leu Leu Gly Gly
                20   25   30

Leu Trp Ser Ala Val Gly Ala Ser Ser Leu Gly Val Val Thr Cys Gly
            35   40   45

Ser Val Val Lys Leu Leu Asn Thr Arg His Asn Val Arg Leu His Ser
        50   55   60

His Asp Val Arg Tyr Gly Ser Gly Ser Gly Gln Gln Ser Val Thr Gly
65   70   75   80

Val Thr Ser Val Asp Asp Ser Asn Ser Tyr Trp Arg Ile Arg Gly Lys
                85   90   95

Ser Ala Thr Val Cys Glu Arg Gly Thr Pro Ile Lys Cys Gly Gln Pro
            100   105   110

Ile Arg Leu Thr His Val Asn Thr Gly Arg Asn Leu His Ser His His
            115   120   125

Phe Thr Ser Pro Leu Ser Gly Asn Gln Glu Val Ser Ala Phe Gly Glu
    130   135   140

Glu Gly Glu Gly Asp Tyr Leu Asp Asp Trp Thr Val Leu Cys Asn Gly
145   150   155   160

Pro Tyr Trp Val Arg Asp Gly Glu Val Arg Phe Lys His Ser Ser Thr
                165   170   175

Glu Val Leu Leu Ser Val Thr Gly Glu Gln Tyr Gly Arg Pro Ile Ser
            180   185   190

Gly Gln Lys Glu Val His Gly Met Ala Gln Pro Ser Gln Asn Asn Tyr
            195   200   205

Trp Lys Ala Met Glu Gly Ile Phe Met Lys Pro Ser Glu Leu Leu Lys
    210   215   220

5598

Ala Glu Ala His His Ala Glu Leu
225   230

<210> 6364
<211> 49
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (43)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6364
Lys Asp Lys Pro Gln Thr Arg Arg Lys Tyr Leu Ser Asn Thr Ser Tyr
  1   5   10   15

Lys Gly Leu Val Ser Lys Ile Tyr Gln Glu Leu Leu Xaa His Asn Lys
              20   25   30

Glu Lys Ile Leu Lys Xaa Ser Lys Lys Ser Xaa Xaa Met Tyr His Gln
          35   40   45

Arg

<210> 6365
<211> 74
<212> PRT
<213> Homo sapiens

<400> 6365

5599

```
Glu Phe Gly Thr Ser Gly Tyr Ile Phe Leu His Leu Gln Leu Pro His
 1               5                   10              15

Gly Val Leu Ile Arg Leu Lys Ser Asn Asn Gly Tyr Lys Asn Thr Leu
             20              25              30

Lys Ser Arg His Gly Phe Leu Leu Thr Ala Met Arg Glu Phe Leu Glu
         35              40              45

Leu Asp Leu Asp Gly Pro Lys Gln Leu Glu Asn Trp Thr Lys Asp Ile
     50              55              60

Lys Lys Lys Leu Phe Ser Thr Ile Gly Gln
65               70
```

```
<210> 6366
<211> 129
<212> PRT
<213> Homo sapiens

<400> 6366
Gly Arg Gly Lys Ser Gly Pro Gly Leu Pro Gln Ser Cys Leu Leu Cys
 1               5                   10              15

Ala Val Asn Gly Phe Asn Thr Leu Gly Glu Asn Ile Ala Asp Asn Gly
             20              25              30

Gly Val Arg Gln Ala Tyr Lys Ala Tyr Leu Lys Trp Met Ala Glu Gly
         35              40              45

Gly Lys Asp Gln Gln Leu Pro Gly Leu Asp Leu Thr His Glu Gln Leu
     50              55              60

Phe Phe Ile Asn Tyr Ala Gln Val Trp Cys Gly Ser Tyr Arg Pro Glu
65               70              75              80

Phe Ala Ile Gln Ser Ile Lys Thr Asp Val His Ser Pro Leu Lys Tyr
             85              90              95

Arg Val Leu Gly Ser Leu Gln Asn Leu Ala Ala Phe Ala Asp Thr Phe
             100             105             110

His Cys Ala Arg Gly Thr Pro Met His Pro Lys Glu Arg Cys Arg Val
         115             120             125

Trp
```

5600

```
<210> 6367
<211> 469
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (81)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6367
Pro Val Ala Val Gly Arg Val Arg Val Thr Ala Glu Gly Arg Xaa Met
  1               5                  10                  15

Val Leu Gln Thr Thr Lys Gly Leu Arg Leu Leu Phe Asp Gly Asp Ala
               20                  25                  30

His Leu Leu Met Ser Ile Pro Ser Pro Phe Arg Gly Arg Leu Cys Gly
         35                  40                  45

Leu Cys Gly Asn Phe Asn Gly Asn Trp Ser Asp Asp Phe Val Leu Pro
     50                  55                  60

Asn Gly Ser Ala Ala Ser Ser Val Glu Thr Phe Gly Ala Ala Trp Arg
 65                  70                  75                  80

Xaa Pro Gly Ser Ser Lys Gly Cys Gly Glu Gly Cys Gly Pro Gln Gly
               85                  90                  95

Cys Pro Val Cys Leu Ala Glu Glu Thr Ala Pro Tyr Glu Ser Asn Glu
              100                 105                 110

Ala Cys Gly Gln Leu Arg Asn Pro Gln Gly Pro Phe Ala Thr Cys Gln
         115                 120                 125

Ala Val Leu Ser Pro Ser Glu Tyr Phe Arg Gln Cys Val Tyr Asp Leu
         130                 135                 140

Cys Ala Gln Lys Gly Asp Lys Ala Phe Leu Cys Arg Ser Leu Ala Ala
145                 150                 155                 160

Tyr Thr Ala Ala Cys Gln Ala Ala Gly Val Ala Val Lys Pro Trp Arg
              165                 170                 175

Thr Asp Ser Phe Cys Pro Leu His Cys Pro Ala His Ser His Tyr Ser
```

5601

	180			185			190	

Ile Cys Thr Arg Thr Cys Gln Gly Ser Cys Ala Ala Leu Ser Gly Leu
        195   200   205

Thr Gly Cys Thr Thr Arg Cys Phe Glu Gly Cys Glu Cys Asp Asp Arg
    210   215   220

Phe Leu Leu Ser Gln Gly Val Cys Ile Pro Val Gln Asp Cys Gly Cys
225   230   235   240

Thr His Asn Gly Arg Tyr Leu Pro Val Asn Ser Ser Leu Leu Thr Ser
              245   250   255

Asp Cys Ser Glu Arg Cys Ser Cys Ser Ser Ser Ser Gly Leu Thr Cys
        260   265   270

Gln Ala Ala Gly Cys Pro Pro Gly Arg Val Cys Glu Val Lys Ala Glu
        275   280   285

Ala Arg Asn Cys Trp Ala Thr Arg Gly Leu Cys Val Leu Ser Val Gly
        290   295   300

Ala Asn Leu Thr Thr Phe Asp Gly Ala Arg Gly Ala Thr Thr Ser Pro
305   310   315   320

Gly Val Tyr Glu Leu Ser Ser Arg Cys Pro Gly Leu Gln Asn Thr Ile
              325   330   335

Pro Trp Tyr Arg Val Val Ala Glu Val Gln Ile Cys His Gly Lys Thr
              340   345   350

Glu Ala Val Gly Gln Val His Ile Phe Phe Gln Asp Gly Met Val Thr
        355   360   365

Leu Thr Pro Asn Lys Gly Val Trp Val Asn Gly Leu Arg Val Asp Leu
    370   375   380

Pro Ala Glu Lys Leu Ala Ser Val Ser Val Ser Arg Thr Pro Asp Gly
385   390   395   400

Ser Leu Leu Val Arg Gln Lys Ala Gly Val Gln Val Trp Leu Gly Ala
              405   410   415

Asn Gly Lys Val Ala Val Ile Val Ser Asn Asp His Ala Gly Lys Leu
              420   425   430

Cys Gly Ala Cys Gly Asn Phe Asp Gly Asp Gln Thr Asn Asp Trp His
        435   440   445

Asp Ser Gln Glu Lys Pro Ala Met Glu Lys Trp Arg Ala Gln Asp Phe

5602

```
        450                 455                 460

Ser Pro Cys Tyr Gly
465



<210> 6368
<211> 705
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (244)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (337)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6368
Arg Glu Gln Lys Leu Glu Leu His Arg Gly Gly Gly Arg Ser Arg Thr
  1               5                  10                  15

Ser Gly Ser Pro Gly Leu Gln Glu Phe Gly Thr Ser Asn Cys Asn Leu
             20                  25                  30

Glu Asp Leu Asp Asn Trp Thr Ala Leu Ile Ser Ala Ser Lys Glu Gly
         35                  40                  45

His Val His Ile Val Glu Glu Leu Leu Lys Cys Gly Val Asn Leu Glu
     50                  55                  60

His Arg Asp Met Gly Gly Trp Thr Ala Leu Met Trp Ala Cys Tyr Lys
 65                  70                  75                  80

Gly Arg Thr Asp Val Val Glu Leu Leu Leu Ser His Gly Ala Asn Pro
                 85                  90                  95

Ser Val Thr Gly Leu Tyr Ser Val Tyr Pro Ile Ile Trp Ala Ala Gly
             100                 105                 110

Arg Gly His Ala Asp Ile Val His Leu Leu Leu Gln Asn Gly Ala Lys
         115                 120                 125

Val Asn Cys Ser Asp Lys Tyr Gly Thr Thr Pro Leu Val Trp Ala Ala
     130                 135                 140

Arg Lys Gly His Leu Glu Cys Val Lys His Leu Leu Ala Met Gly Ala
```

5603

```
145                    150                    155                    160

Asp Val Asp Gln Glu Gly Ala Asn Ser Met Thr Ala Leu Ile Val Ala
            165                 170                 175

Val Lys Gly Gly Tyr Thr Gln Ser Val Lys Glu Ile Leu Lys Arg Asn
            180                 185                 190

Pro Asn Val Asn Leu Thr Asp Lys Asp Gly Asn Thr Ala Leu Met Ile
            195                 200                 205

Ala Ser Lys Glu Gly His Thr Glu Ile Val Gln Asp Leu Leu Asp Ala
    210                 215                 220

Gly Thr Tyr Val Asn Ile Pro Asp Arg Ser Gly Asp Thr Val Leu Ile
225                 230                 235                 240

Gly Ala Val Xaa Gly Gly His Val Glu Ile Val Arg Ala Leu Leu Gln
            245                 250                 255

Lys Tyr Ala Asp Ile Asp Ile Arg Gly Gln Asp Asn Lys Thr Ala Leu
            260                 265                 270

Tyr Trp Ala Val Glu Lys Gly Asn Ala Thr Met Val Arg Asp Ile Leu
            275                 280                 285

Gln Cys Asn Pro Asp Thr Glu Ile Cys Thr Lys Asp Gly Glu Thr Pro
    290                 295                 300

Leu Ile Lys Ala Thr Lys Met Arg Asn Ile Glu Val Val Glu Leu Leu
305                 310                 315                 320

Leu Asp Lys Gly Ala Lys Val Ser Ala Val Asp Lys Lys Gly Asp Thr
            325                 330                 335

Xaa Leu His Ile Ala Ile Arg Gly Arg Ser Arg Lys Leu Ala Glu Leu
            340                 345                 350

Leu Leu Arg Asn Pro Lys Asp Gly Arg Leu Leu Tyr Arg Pro Asn Lys
            355                 360                 365

Ala Gly Glu Thr Pro Tyr Asn Ile Asp Cys Ser His Gln Lys Ser Ile
    370                 375                 380

Leu Thr Gln Ile Phe Gly Ala Arg His Leu Ser Pro Thr Glu Thr Asp
385                 390                 395                 400

Gly Asp Met Leu Gly Tyr Asp Leu Tyr Ser Ser Ala Leu Ala Asp Ile
            405                 410                 415

Leu Ser Glu Pro Thr Met Gln Pro Pro Ile Cys Val Gly Leu Tyr Ala
```

5604

```
                420                    425                      430

Gln Trp Gly Ser Gly Lys Ser Phe Leu Leu Lys Lys Leu Glu Asp Glu
        435             440             445

Met Lys Thr Phe Ala Gly Gln Gln Ile Glu Pro Leu Phe Gln Phe Ser
    450             455             460

Trp Leu Ile Val Phe Leu Thr Leu Leu Leu Cys Gly Gly Leu Gly Leu
465             470             475             480

Leu Phe Ala Phe Thr Val His Pro Asn Leu Gly Ile Ala Val Ser Leu
            485             490             495

Ser Phe Leu Ala Leu Leu Tyr Ile Phe Phe Ile Val Ile Tyr Phe Gly
        500             505             510

Gly Arg Arg Glu Gly Glu Ser Trp Asn Trp Ala Trp Val Leu Ser Thr
        515             520             525

Arg Leu Ala Arg His Ile Gly Tyr Leu Glu Leu Leu Leu Lys Leu Met
    530             535             540

Phe Val Asn Pro Pro Glu Leu Pro Glu Gln Thr Thr Lys Ala Leu Pro
545             550             555             560

Val Arg Phe Leu Phe Thr Asp Tyr Asn Arg Leu Ser Ser Val Gly Gly
            565             570             575

Glu Thr Ser Leu Ala Glu Met Ile Ala Thr Leu Ser Asp Ala Cys Glu
        580             585             590

Arg Glu Phe Gly Phe Leu Ala Thr Arg Leu Phe Arg Val Phe Lys Thr
        595             600             605

Glu Asp Thr Gln Gly Lys Lys Lys Lys Lys Asn Ser Arg Gly Gly Pro
    610             615             620

Val Pro Asn Ser Pro Tyr Ser Glu Ser Tyr Tyr Asn Ser Leu Ala Val
625             630             635             640

Val Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val Thr Gln Leu Asn
            645             650             655

Arg Leu Ala Ala His Pro Pro Phe Ala Ser Trp Arg Asn Ser Glu Glu
            660             665             670

Ala Arg Thr Asp Arg Pro Ser Gln Gln Leu Arg Ser Leu Asn Gly Glu
        675             680             685

Trp Gln Ile Val Ser Val Asn Ile Leu Leu Lys Phe Ala Leu Asn Phe
```

5605

```
        690                  695                  700

Cys
705



<210> 6369
<211> 294
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (234)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (242)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (247)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (249)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (251)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (259)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (272)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (282)
<223> Xaa equals any of the naturally occurring L-amino acids
```

5606

<220>
<221> SITE
<222> (292)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6369
Gly Lys Leu Val Arg Leu Gln Val Pro Val Arg Asn Ser Arg Val Asp
  1   5   10   15

Pro Arg Val Arg Pro Ser Ser Trp Phe Ala His Gly His Pro Leu Tyr
             20   25   30

Thr Arg Leu Pro Pro Ser Ala Leu Gln Val Leu Ser Ala Gln Gly Thr
         35   40   45

Gln Ala Leu Gln Ala Ala Gln Arg Ser Ala Gln Trp Ala Ile Asn Arg
     50   55   60

Val Ala Met Glu Ile Gln His Arg Ser His Glu Cys Arg Gly Ser Gly
 65   70   75   80

Arg Pro Arg Pro Gln Ala Leu Leu Gln Asp Pro Pro Glu Pro Gly Pro
             85   90   95

Cys Gly Glu Arg Arg Pro Ser Thr Ala Asn Val Thr Arg Ala His Gly
             100   105   110

Arg Ile Val Gly Gly Ser Ala Ala Pro Pro Gly Ala Trp Pro Trp Leu
         115   120   125

Val Arg Leu Gln Leu Gly Gly Gln Pro Leu Cys Gly Gly Val Leu Val
     130   135   140

Ala Ala Ser Trp Val Leu Thr Ala Ala His Cys Phe Val Gly Ala Pro
145   150   155   160

Asn Glu Leu Leu Trp Thr Val Thr Leu Ala Glu Gly Ser Arg Gly Glu
             165   170   175

Gln Ala Glu Glu Val Pro Val Asn Arg Ile Leu Pro His Pro Lys Phe
             180   185   190

Asp Pro Arg Thr Phe His Asn Asp Leu Ala Leu Val Gln Leu Trp Thr
         195   200   205

Pro Val Thr Arg Gly Asp Arg Arg Ala Pro Cys Ala Cys Pro Gly Ala
     210   215   220

Pro Gly Ala Pro Cys Arg Asn Arg Leu Xaa His Arg Gly Leu Gly Arg
225   230   235   240

5607

```
Pro Xaa Arg Arg Arg Ala Xaa Gly Xaa Ser Xaa Glu Arg Gly Pro Cys
            245             250                     255

Ser Pro Xaa Gln His Arg His Leu Pro Lys Ser Pro Gly Ala Arg Xaa
            260             265                 270

Ala Pro Gln His His Ala Leu Arg Arg Xaa Leu Ala Ala Gly Val Asp
        275             280             285

Ser Cys Gln Xaa Asp Ser
    290
```

```
<210> 6370
<211> 294
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (239)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6370
Leu Ser Phe Gly Pro Ser Gly Arg Thr Leu Pro Thr Thr Thr Arg Arg
  1           5               10              15

Met Thr Leu Lys Thr Pro Trp Arg Ser Leu Gly Gly Ser Trp Cys Thr
            20              25              30

Ala Thr Ser Ser Gly Pro Pro Gln Tyr Pro Met Ile Leu Ser Ser Leu
        35              40              45

Leu Gly Ser Gly Ile Gln Leu Phe Cys Met Ile Leu Ile Val Ile Phe
    50              55              60

Val Ala Met Leu Gly Met Leu Ser Pro Ser Ser Arg Gly Ala Leu Met
 65              70              75              80

Thr Thr Ala Cys Phe Leu Phe Met Phe Met Gly Val Phe Gly Gly Phe
            85              90              95

Ser Ala Gly Arg Leu Tyr Arg Thr Leu Lys Gly His Arg Trp Lys Lys
            100             105             110

Gly Ala Phe Cys Thr Ala Thr Leu Tyr Pro Gly Val Val Phe Gly Ile
            115             120             125

Cys Phe Val Leu Asn Cys Phe Ile Trp Gly Lys His Ser Ser Gly Ala
```

5608

```
        130                    135                    140

Val Pro Phe Pro Thr Met Val Ala Leu Leu Cys Met Trp Phe Gly Ile
145              150              155                  160

Ser Leu Pro Leu Val Tyr Leu Gly Tyr Tyr Phe Gly Phe Arg Lys Gln
                 165              170                  175

Pro Tyr Asp Asn Pro Val Arg Thr Asn Gln Ile Pro Arg Gln Ile Pro
            180              185              190

Glu Gln Arg Trp Tyr Met Asn Arg Phe Val Gly Ile Leu Met Ala Gly
            195              200              205

Ile Leu Pro Phe Gly Ala Met Phe Ile Glu Leu Phe Phe Ile Phe Ser
    210              215              220

Ala Ile Trp Glu Asn Gln Phe Tyr Tyr Leu Phe Gly Phe Leu Xaa Leu
225              230              235                  240

Val Phe Ile Ile Leu Val Val Ser Cys Ser Gln Ile Ser Ile Val Met
                 245              250              255

Val Tyr Phe Gln Leu Cys Ala Glu Asp Tyr Arg Trp Trp Trp Arg Asn
            260              265              270

Phe Leu Val Ser Gly Gly Ser Ala Phe Tyr Val Leu Val Tyr Ala Ile
            275              280              285

Phe Tyr Phe Val Asn Lys
    290
```

```
<210> 6371
<211> 944
<212> PRT
<213> Homo sapiens

<400> 6371
Ser Lys Lys Met Val Phe Leu Pro Leu Lys Trp Ser Leu Ala Thr Met
    1               5               10                  15

Ser Phe Leu Leu Ser Ser Leu Leu Ala Leu Leu Thr Val Ser Thr Pro
                20              25              30

Ser Trp Cys Gln Ser Thr Glu Ala Ser Pro Lys Arg Ser Asp Gly Thr
            35              40              45

Pro Phe Pro Trp Asn Lys Ile Arg Leu Pro Glu Tyr Val Ile Pro Val
    50              55              60
```

5609

```
His Tyr Asp Leu Leu Ile His Ala Asn Leu Thr Thr Leu Thr Phe Trp
65                  70              75                  80

Gly Thr Thr Lys Val Glu Ile Thr Ala Ser Gln Pro Thr Ser Thr Ile
                85              90                  95

Ile Leu His Ser His His Leu Gln Ile Ser Arg Ala Thr Leu Arg Lys
            100             105             110

Gly Ala Gly Glu Arg Leu Ser Glu Glu Pro Leu Gln Val Leu Glu His
        115             120             125

Pro Pro Gln Glu Gln Ile Ala Leu Leu Ala Pro Glu Pro Leu Leu Val
    130             135             140

Gly Leu Pro Tyr Thr Val Val Ile His Tyr Ala Gly Asn Leu Ser Glu
145             150             155             160

Thr Phe His Gly Phe Tyr Lys Ser Thr Tyr Arg Thr Lys Glu Gly Glu
            165             170             175

Leu Arg Ile Leu Ala Ser Thr Gln Phe Glu Pro Thr Ala Ala Arg Met
            180             185             190

Ala Phe Pro Cys Phe Asp Glu Pro Ala Phe Lys Ala Ser Phe Ser Ile
        195             200             205

Lys Ile Arg Arg Glu Pro Arg His Leu Ala Ile Ser Asn Met Pro Leu
    210             215             220

Val Lys Ser Val Thr Val Ala Glu Gly Leu Ile Glu Asp His Phe Asp
225             230             235             240

Val Thr Val Lys Met Ser Thr Tyr Leu Val Ala Phe Ile Ile Ser Asp
            245             250             255

Phe Glu Ser Val Ser Lys Ile Thr Lys Ser Gly Val Lys Val Ser Val
        260             265             270

Tyr Ala Val Pro Asp Lys Met Asn Gln Ala Asp Tyr Ala Leu Asp Ala
    275             280             285

Ala Val Thr Leu Leu Glu Phe Tyr Glu Asp Tyr Phe Ser Ile Pro Tyr
    290             295             300

Pro Leu Pro Lys Gln Asp Leu Ala Ala Ile Pro Asp Phe Gln Ser Gly
305             310             315             320

Ala Met Glu Asn Trp Gly Leu Thr Thr Tyr Arg Glu Ser Ala Leu Leu
            325             330             335
```

5610

Phe Asp Ala Glu Lys Ser Ser Ala Ser Ser Lys Leu Gly Ile Thr Met
            340   345   350

Thr Val Ala His Glu Leu Ala His Gln Trp Phe Gly Asn Leu Val Thr
            355   360   365

Met Glu Trp Trp Asn Asp Leu Trp Leu Asn Glu Gly Phe Ala Lys Phe
    370   375   380

Met Glu Phe Val Ser Val Ser Val Thr His Pro Glu Leu Lys Val Gly
385   390   395   400

Asp Tyr Phe Phe Gly Lys Cys Phe Asp Ala Met Glu Val Asp Ala Leu
            405   410   415

Asn Ser Ser His Pro Val Ser Thr Pro Val Glu Asn Pro Ala Gln Ile
            420   425   430

Arg Glu Met Phe Asp Asp Val Ser Tyr Asp Lys Gly Ala Cys Ile Leu
            435   440   445

Asn Met Leu Arg Glu Tyr Leu Ser Ala Asp Ala Phe Lys Ser Gly Ile
    450   455   460

Val Gln Tyr Leu Gln Lys His Ser Tyr Lys Asn Thr Lys Asn Glu Asp
465   470   475   480

Leu Trp Asp Ser Met Ala Ser Ile Cys Pro Thr Asp Gly Val Lys Gly
            485   490   495

Met Asp Gly Phe Cys Ser Arg Ser Gln His Ser Ser Ser Ser Ser His
            500   505   510

Trp His Gln Glu Gly Val Asp Val Lys Thr Met Met Asn Thr Trp Thr
            515   520   525

Leu Gln Arg Gly Phe Pro Leu Ile Thr Ile Thr Val Arg Gly Arg Asn
    530   535   540

Val His Met Lys Gln Glu His Tyr Met Lys Gly Ser Asp Gly Ala Pro
545   550   555   560

Asp Thr Gly Tyr Leu Trp His Val Pro Leu Thr Phe Ile Thr Ser Lys
            565   570   575

Ser Asp Met Val His Arg Phe Leu Leu Lys Thr Lys Thr Asp Val Leu
            580   585   590

Ile Leu Pro Glu Glu Val Glu Trp Ile Lys Phe Asn Val Gly Met Asn
            595   600   605

5611

```
Gly Tyr Tyr Ile Val His Tyr Glu Asp Asp Gly Trp Asp Ser Leu Thr
    610             615             620

Gly Leu Leu Lys Gly Thr His Thr Ala Val Ser Ser Asn Asp Arg Ala
625             630             635             640

Ser Leu Ile Asn Asn Ala Phe Gln Leu Val Ser Ile Gly Lys Leu Ser
                645             650             655

Ile Glu Lys Ala Leu Asp Leu Ser Leu Tyr Leu Lys His Glu Thr Glu
            660             665             670

Ile Met Pro Val Phe Gln Gly Leu Asn Glu Leu Ile Pro Met Tyr Lys
        675             680             685

Leu Met Glu Lys Arg Asp Met Asn Glu Val Glu Thr Gln Phe Lys Ala
    690             695             700

Phe Leu Ile Arg Leu Leu Arg Asp Leu Ile Asp Lys Gln Thr Trp Thr
705             710             715             720

Asp Glu Gly Ser Val Ser Glu Arg Met Leu Arg Ser Glu Leu Leu Leu
            725             730             735

Leu Ala Cys Val His Asn Tyr Gln Pro Cys Val Gln Arg Ala Glu Gly
        740             745             750

Tyr Phe Arg Lys Trp Lys Glu Ser Asn Gly Asn Leu Ser Leu Pro Val
        755             760             765

Asp Val Thr Leu Ala Val Phe Ala Val Gly Ala Gln Ser Thr Glu Gly
    770             775             780

Trp Asp Phe Leu Tyr Ser Lys Tyr Gln Phe Ser Leu Ser Ser Thr Glu
785             790             795             800

Lys Ser Gln Ile Glu Phe Ala Leu Cys Arg Thr Gln Asn Lys Glu Lys
            805             810             815

Leu Gln Trp Leu Leu Asp Glu Ser Phe Lys Gly Asp Lys Ile Lys Thr
        820             825             830

Gln Glu Phe Pro Gln Ile Leu Thr Leu Ile Gly Arg Asn Pro Val Gly
        835             840             845

Tyr Pro Leu Ala Trp Gln Phe Leu Arg Lys Asn Trp Asn Lys Leu Val
    850             855             860

Gln Lys Phe Glu Leu Gly Ser Ser Ser Ile Ala His Met Val Met Gly
865             870             875             880
```

5612

```
Thr Thr Asn Gln Phe Ser Thr Arg Thr Arg Leu Glu Glu Val Lys Gly
              885                 890                 895

Phe Phe Ser Ser Leu Lys Glu Asn Gly Ser Gln Leu Arg Cys Val Gln
              900                 905                 910

Gln Thr Ile Glu Thr Ile Glu Glu Asn Ile Gly Trp Met Asp Lys Asn
              915                 920                 925

Phe Asp Lys Ile Arg Val Trp Leu Gln Ser Glu Lys Leu Glu Arg Met
    930                 935                 940
```

```
<210> 6372
<211> 377
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (127)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6372
Val Arg Asn Gly Ser Phe Cys Ser Pro Gly Ser Glu Pro Pro Gly Ala
    1             5                 10                  15

Ala Arg Gly Leu Ala Ala Pro Arg Pro Arg Cys Pro Pro Gly Val Pro
              20                25                  30

Leu Leu Arg Ala Pro Ala Ala Gly Cys Gln Leu Phe Gly Ala Pro Ser
              35                40                  45

Arg Thr Gln Arg Arg Glu Arg Ala Arg Asp Lys Leu Glu Leu Arg Pro
    50                55                  60

Pro Arg Pro Ser Pro Ala Pro Leu Pro Leu Pro Pro Arg Gly Arg Ala
65                70                75                  80

Pro Thr Met Leu Gln Gly Pro Gly Ser Leu Leu Leu Leu Phe Leu Ala
              85                90                  95

Ser His Cys Cys Leu Gly Ser Ala Arg Gly Leu Phe Leu Phe Gly Gln
              100               105                 110

Pro Asp Phe Ser Tyr Lys Arg Ser Asn Cys Lys Pro Ile Pro Xaa Asn
```

5613

                  115   120   125

Leu Gln Leu Cys His Gly Ile Glu Tyr Gln Asn Met Arg Leu Pro Asn
    130   135   140

Leu Leu Gly His Glu Thr Met Lys Glu Val Leu Glu Gln Ala Gly Ala
145   150   155   160

Trp Ile Pro Leu Val Met Lys Gln Cys His Pro Asp Thr Lys Lys Phe
                  165   170   175

Leu Cys Ser Leu Phe Ala Pro Val Cys Leu Asp Asp Leu Asp Glu Thr
                  180   185   190

Ile Gln Pro Cys His Ser Leu Cys Val Gln Val Lys Asp Arg Cys Ala
                  195   200   205

Pro Val Met Ser Ala Phe Gly Phe Pro Trp Pro Asp Met Leu Glu Cys
         210   215   220

Asp Arg Phe Pro Gln Asp Asn Asp Leu Cys Ile Pro Leu Ala Ser Ser
225   230   235   240

Asp His Leu Leu Pro Ala Thr Glu Glu Ala Pro Lys Val Cys Glu Ala
                  245   250   255

Cys Lys Asn Lys Asn Asp Asp Asp Asn Asp Ile Met Glu Thr Leu Cys
                  260   265   270

Lys Asn Asp Phe Ala Leu Lys Ile Lys Val Lys Glu Ile Thr Tyr Ile
                  275   280   285

Asn Arg Asp Thr Lys Ile Ile Leu Glu Thr Lys Ser Lys Thr Ile Tyr
         290   295   300

Lys Leu Asn Gly Val Ser Glu Arg Asp Leu Lys Lys Ser Val Leu Trp
305   310   315   320

Leu Lys Asp Ser Leu Gln Cys Thr Cys Glu Glu Met Asn Asp Ile Asn
                  325   330   335

Ala Pro Tyr Leu Val Met Gly Gln Lys Gln Gly Gly Glu Leu Val Ile
                  340   345   350

Thr Ser Val Lys Arg Trp Gln Lys Gly Gln Arg Glu Phe Lys Arg Ile
                  355   360   365

Ser Arg Ser Ile Arg Lys Leu Gln Cys
         370   375

5614

```
<210> 6373
<211> 442
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (144)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6373
His Xaa Pro Arg Leu Pro Ala Leu Pro Pro Arg Leu Leu Ser Pro Ser
 1               5                  10                  15

Ala Ala Thr Met Ser Ala Ser Ala Val Phe Ile Leu Asp Val Lys Gly
            20                  25                  30

Lys Pro Leu Ile Ser Arg Asn Tyr Lys Gly Asp Val Ala Met Ser Lys
         35                  40                  45

Ile Glu His Phe Met Pro Leu Leu Val Gln Arg Glu Glu Glu Gly Ala
     50                  55                  60

Leu Ala Pro Leu Leu Ser His Gly Gln Val His Phe Leu Trp Ile Lys
 65                  70                  75                  80

His Ser Asn Leu Tyr Leu Val Ala Thr Thr Ser Lys Asn Ala Asn Ala
                 85                  90                  95

Ser Leu Val Tyr Ser Phe Leu Tyr Lys Thr Ile Glu Val Phe Cys Glu
                100                 105                 110

Tyr Phe Lys Glu Leu Glu Glu Glu Ser Ile Arg Asp Asn Phe Val Ile
         115                 120                 125

Val Tyr Glu Leu Leu Asp Glu Leu Met Asp Phe Gly Phe Pro Gln Xaa
     130                 135                 140

Thr Asp Ser Lys Ile Leu Gln Glu Tyr Ile Thr Gln Gln Ser Asn Lys
145                 150                 155                 160

Leu Glu Thr Gly Lys Ser Arg Val Pro Pro Thr Val Thr Asn Ala Val
                165                 170                 175

Ser Trp Arg Ser Glu Gly Ile Lys Tyr Lys Lys Asn Glu Val Phe Ile
```

5615

```
              180                    185                    190

Asp Val Ile Glu Ser Val Asn Leu Leu Val Asn Ala Asn Gly Ser Val
        195                 200                 205

Leu Leu Ser Glu Ile Val Gly Thr Ile Lys Leu Lys Val Phe Leu Ser
    210                 215                 220

Gly Met Pro Glu Leu Arg Leu Gly Leu Asn Asp Arg Val Leu Phe Glu
225                 230                 235                 240

Leu Thr Gly Arg Ser Lys Asn Lys Ser Val Glu Leu Glu Asp Val Lys
                245                 250                 255

Phe His Gln Cys Val Arg Leu Ser Arg Phe Asp Asn Asp Arg Thr Ile
            260                 265                 270

Ser Phe Ile Pro Pro Asp Gly Asp Phe Glu Leu Met Ser Tyr Arg Leu
        275                 280                 285

Ser Thr Gln Val Lys Pro Leu Ile Trp Ile Glu Ser Val Ile Glu Lys
    290                 295                 300

Phe Ser His Ser Arg Val Glu Ile Met Val Lys Ala Lys Gly Gln Phe
305                 310                 315                 320

Lys Lys Gln Ser Val Ala Asn Gly Val Glu Ile Ser Val Pro Val Pro
                325                 330                 335

Ser Asp Ala Asp Ser Pro Arg Phe Lys Thr Ser Val Gly Ser Ala Lys
                340                 345                 350

Tyr Val Pro Glu Arg Asn Val Val Ile Trp Ser Ile Lys Ser Phe Pro
            355                 360                 365

Gly Gly Lys Glu Tyr Leu Met Arg Ala His Phe Gly Leu Pro Ser Val
    370                 375                 380

Glu Lys Glu Glu Val Glu Gly Arg Pro Pro Ile Gly Val Lys Phe Glu
385                 390                 395                 400

Ile Pro Tyr Phe Thr Val Ser Gly Ile Gln Val Arg Tyr Met Lys Ile
                405                 410                 415

Ile Glu Lys Ser Gly Tyr Gln Ala Leu Pro Trp Val Arg Tyr Ile Thr
                420                 425                 430

Gln Ser Gly Asp Tyr Gln Leu Arg Thr Ser
            435                 440
```

5616

<210> 6374
<211> 347
<212> PRT
<213> Homo sapiens

<400> 6374
Glu Glu Ala Asp Ala Glu Met Glu Gln Ala Leu His Arg Phe Gly Arg
 1   5   10   15

Gly Leu Val Trp Leu Ser Val Ala Trp Leu Ser Val Gly Arg Val Arg
            20   25   30

Val Arg Asp Asp Gly Asp Thr Gly Arg Gly Phe Cys Arg Ala Gly Pro
            35   40   45

Val Leu Thr Arg Gly Pro Ser Gly Asp Ser Ser Pro Leu Pro Leu Pro
     50   55   60

Thr Ser Val Thr Ala Ala Tyr Lys His Ala Asp Gly Lys Lys Ile Asp
 65   70   75   80

Gly Arg Arg Val Leu Val Asp Val Glu Arg Gly Arg Thr Val Lys Gly
                85   90   95

Trp Arg Pro Arg Arg Leu Gly Gly Gly Leu Gly Gly Thr Arg Arg Gly
            100   105   110

Gly Ala Asp Val Asn Ile Arg His Ser Gly Arg Asp Asp Thr Ser Arg
            115   120   125

Tyr Asp Glu Arg Pro Gly Pro Ser Pro Leu Pro His Arg Asp Arg Asp
    130   135   140

Arg Asp Arg Glu Arg Glu Arg Arg Glu Arg Ser Arg Glu Arg Asp Lys
145   150   155   160

Glu Arg Glu Arg Arg Arg Ser Arg Ser Arg Asp Arg Arg Arg Arg Ser
            165   170   175

Arg Ser Arg Asp Lys Glu Glu Arg Arg Arg Ser Arg Glu Arg Ser Lys
            180   185   190

Asp Lys Asp Arg Asp Arg Lys Arg Arg Ser Ser Arg Ser Arg Glu Arg
            195   200   205

Ala Arg Arg Glu Arg Glu Arg Lys Glu Glu Leu Arg Gly Gly Gly Gly
    210   215   220

Asp Met Ala Glu Pro Ser Glu Ala Gly Asp Ala Pro Pro Asp Asp Gly
225   230   235   240

5617

```
Pro Pro Gly Glu Leu Gly Pro Asp Gly Pro Asp Gly Pro Glu Glu Lys
                245             250             255

Gly Arg Asp Arg Asp Arg Glu Arg Arg Arg Ser His Arg Ser Glu Arg
            260             265             270

Glu Arg Arg Arg Asp Arg Asp Arg Asp Arg Asp Arg Asp Arg Glu His
        275             280             285

Lys Arg Gly Glu Arg Gly Ser Glu Arg Gly Arg Asp Glu Ala Arg Gly
    290             295             300

Gly Gly Gly Gly Gln Asp Asn Gly Leu Glu Gly Leu Gly Asn Asp Ser
305             310             315             320

Arg Asp Met Tyr Met Glu Ser Glu Gly Gly Asp Gly Tyr Leu Ala Pro
            325             330             335

Glu Asn Gly Tyr Leu Met Glu Ala Ala Pro Glu
            340             345
```

```
<210> 6375
<211> 410
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6375
Tyr Arg Ser Thr Leu Gln Tyr Arg Ser Gly Ile Pro Gly Arg Pro Thr
  1           5               10              15

Xaa Arg Leu Ala Ser Pro Phe Arg Pro Val Pro Met Glu Ala Leu Gly
            20              25              30

Lys Leu Lys Gln Phe Asp Ala Tyr Pro Lys Thr Leu Glu Asp Phe Arg
        35              40              45

Val Lys Thr Cys Gly Gly Ala Thr Val Thr Ile Val Ser Gly Leu Leu
    50              55              60

Met Leu Leu Leu Phe Leu Ser Glu Leu Gln Tyr Tyr Leu Thr Thr Glu
65              70              75              80

Val His Pro Glu Leu Tyr Val Asp Lys Ser Arg Gly Asp Lys Leu Lys
```

5618

```
              85                    90                    95

Ile Asn Ile Asp Val Leu Phe Pro His Met Pro Cys Ala Tyr Leu Ser
            100                    105              110

Ile Asp Ala Met Asp Val Ala Gly Glu Gln Gln Leu Asp Val Glu His
            115              120                  125

Asn Leu Phe Lys Gln Arg Leu Asp Lys Asp Gly Ile Pro Val Ser Ser
        130              135                  140

Glu Ala Glu Arg His Glu Leu Gly Lys Val Glu Val Thr Val Phe Asp
145                  150              155                  160

Pro Asp Ser Leu Asp Pro Asp Arg Cys Glu Ser Cys Tyr Gly Ala Glu
                165              170                  175

Ala Glu Asp Ile Lys Cys Cys Asn Thr Cys Glu Asp Val Arg Glu Ala
            180              185                  190

Tyr Arg Arg Arg Gly Trp Ala Phe Lys Asn Pro Asp Thr Ile Glu Gln
        195              200                  205

Cys Arg Arg Glu Gly Phe Ser Gln Lys Met Gln Glu Gln Lys Asn Glu
    210              215                  220

Gly Cys Gln Val Tyr Gly Phe Leu Glu Val Asn Lys Val Ala Gly Asn
225              230                  235                  240

Phe His Phe Ala Pro Gly Lys Ser Phe Gln Gln Ser His Val His Val
                245              250                  255

His Asp Leu Gln Ser Phe Gly Leu Asp Asn Ile Asn Met Thr His Tyr
            260              265                  270

Ile Gln His Leu Ser Phe Gly Glu Asp Tyr Pro Gly Ile Val Asn Pro
        275              280                  285

Leu Asp His Thr Asn Val Thr Ala Pro Gln Ala Ser Met Met Phe Gln
    290              295                  300

Tyr Phe Val Lys Val Val Pro Thr Val Tyr Met Lys Val Asp Gly Glu
305              310                  315                  320

Val Leu Arg Thr Asn Gln Phe Ser Val Thr Arg His Glu Lys Val Ala
            325                  330                  335

Asn Gly Leu Leu Gly Asp Gln Gly Leu Pro Gly Val Phe Val Leu Tyr
            340                  345                  350

Glu Leu Ser Pro Met Met Val Lys Leu Thr Glu Lys His Arg Ser Phe
```

5619

```
          355                   360                   365

Thr His Phe Leu Thr Gly Val Cys Ala Ile Ile Gly Gly Met Phe Thr
    370                   375                   380

Val Ala Gly Leu Ile Asp Ser Leu Ile Tyr His Ser Ala Arg Ala Ile
385                   390                   395                   400

Gln Lys Lys Ile Asp Leu Gly Lys Thr Thr
              405                   410
```

<210> 6376
<211> 539
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6376
```
Ile Xaa Ile Phe Thr Gln Xaa Xaa Ala Met Xaa Met Ile Thr Pro Ser
  1               5                   10                  15

Phe Asn Thr Thr His Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg
            20                  25                  30

Ser Gly Ile Pro Gly Ser Thr His Ala Ser Ala Ser Thr Thr Val Pro
          35                  40                  45

Gly Leu Ser Glu Glu Ser Thr Thr Phe Tyr Ser Ser Pro Gly Ser Thr
    50                  55                  60
```

5620

```
Glu Thr Thr Ala Phe Ser His Ser Asn Thr Met Ser Ile His Ser Gln
65              70              75              80

Gln Ser Thr Pro Phe Pro Asp Ser Pro Gly Phe Thr His Thr Val Leu
            85              90              95

Pro Ala Thr Leu Thr Thr Thr Asp Ile Gly Gln Glu Ser Thr Ala Phe
            100             105             110

His Ser Ser Ser Asp Ala Thr Gly Thr Thr Pro Leu Pro Ala Arg Ser
        115             120             125

Thr Ala Ser Asp Leu Val Gly Glu Pro Thr Thr Phe Tyr Ile Ser Pro
    130             135             140

Ser Pro Thr Tyr Thr Thr Leu Phe Pro Ala Ser Ser Ser Thr Ser Gly
145             150             155             160

Leu Thr Glu Glu Ser Thr Thr Phe His Thr Ser Pro Ser Phe Thr Ser
            165             170             175

Thr Ile Val Ser Thr Glu Ser Leu Glu Thr Leu Ala Pro Gly Leu Cys
            180             185             190

Gln Glu Gly Gln Ile Trp Asn Gly Lys Gln Cys Val Cys Pro Gln Gly
        195             200             205

Tyr Val Gly Tyr Gln Cys Leu Ser Pro Leu Glu Ser Phe Pro Val Glu
    210             215             220

Thr Pro Glu Lys Leu Asn Ala Thr Leu Gly Met Thr Val Lys Val Thr
225             230             235             240

Tyr Arg Asn Phe Thr Glu Lys Met Asn Asp Ala Ser Ser Gln Glu Tyr
            245             250             255

Gln Asn Phe Ser Thr Leu Phe Lys Asn Arg Met Asp Val Val Leu Lys
            260             265             270

Gly Asp Asn Leu Pro Gln Tyr Arg Gly Val Asn Ile Arg Arg Leu Leu
        275             280             285

Asn Gly Ser Ile Val Val Lys Asn Asp Val Ile Leu Glu Ala Asp Tyr
    290             295             300

Thr Leu Glu Tyr Glu Glu Leu Phe Glu Asn Leu Ala Glu Ile Val Lys
305             310             315             320

Ala Lys Ile Met Asn Glu Thr Arg Thr Thr Leu Leu Asp Pro Asp Ser
            325             330             335
```

5621

```
Cys Arg Lys Ala Ile Leu Cys Tyr Ser Glu Glu Asp Thr Phe Val Asp
            340             345             350

Ser Ser Val Thr Pro Gly Phe Asp Phe Gln Glu Gln Cys Thr Gln Lys
            355             360             365

Ala Ala Glu Gly Tyr Thr Gln Phe Tyr Tyr Val Asp Val Leu Asp Gly
    370             375             380

Lys Leu Ala Cys Val Asn Lys Cys Thr Lys Gly Thr Lys Ser Gln Met
385             390             395             400

Asn Cys Asn Leu Gly Thr Cys Gln Leu Gln Arg Ser Gly Pro Arg Cys
                405             410             415

Leu Cys Pro Asn Thr Asn Thr His Trp Tyr Trp Gly Glu Thr Cys Glu
            420             425             430

Phe Asn Ile Ala Lys Ser Leu Val Tyr Gly Ile Val Gly Ala Val Met
            435             440             445

Ala Val Leu Leu Leu Ala Leu Ile Ile Leu Ile Ile Leu Phe Ser Leu
    450             455             460

Ser Gln Arg Lys Arg His Arg Glu Gln Tyr Asp Val Pro Gln Glu Trp
465             470             475             480

Arg Lys Glu Gly Thr Pro Gly Ile Phe Gln Lys Thr Ala Ile Trp Glu
                485             490             495

Asp Gln Asn Leu Arg Glu Ser Arg Phe Gly Leu Glu Asn Ala Tyr Asn
            500             505             510

Asn Phe Arg Pro Thr Leu Glu Thr Val Asp Ser Gly Thr Glu Leu His
            515             520             525

Ile Gln Arg Pro Glu Met Val Ala Ser Thr Val
    530             535
```

```
<210> 6377
<211> 365
<212> PRT
<213> Homo sapiens

<400> 6377
Gly Arg Val Gly Ser Pro Gly Gly Cys Pro Trp Val Leu Pro Ser Leu
 1               5               10              15

Pro Asp Thr Gln Thr Asp Leu Asp Arg Pro Pro Gly Arg Ser Arg Thr
```

5622

```
           20                    25                    30

Gly Arg Pro Asp Ala Ala Met Ala Glu Leu Pro Gly Pro Phe Leu Cys
        35                  40                  45

Gly Ala Leu Leu Gly Phe Leu Cys Leu Ser Gly Leu Ala Val Glu Val
      50                  55                  60

Lys Val Pro Thr Glu Pro Leu Ser Thr Pro Leu Gly Lys Thr Ala Glu
65                  70                  75                  80

Leu Thr Cys Thr Tyr Ser Thr Ser Val Gly Asp Ser Phe Ala Leu Glu
                85                  90                  95

Trp Ser Phe Val Gln Pro Gly Lys Pro Ile Ser Glu Ser His Pro Ile
              100                 105                 110

Leu Tyr Phe Thr Asn Gly His Leu Tyr Pro Thr Gly Ser Lys Ser Lys
            115                 120                 125

Arg Val Ser Leu Leu Gln Asn Pro Pro Thr Val Gly Val Ala Thr Leu
            130                 135                 140

Lys Leu Thr Asp Val His Pro Ser Asp Thr Gly Thr Tyr Leu Cys Gln
145                 150                 155                 160

Val Asn Asn Pro Pro Asp Phe Tyr Thr Asn Gly Leu Gly Leu Ile Asn
                165                 170                 175

Leu Thr Val Leu Val Pro Pro Ser Asn Pro Leu Cys Ser Gln Ser Gly
              180                 185                 190

Gln Thr Ser Val Gly Gly Ser Thr Ala Leu Arg Cys Ser Ser Ser Glu
            195                 200                 205

Gly Ala Pro Lys Pro Val Tyr Asn Trp Val Arg Leu Gly Thr Phe Pro
            210                 215                 220

Thr Pro Ser Pro Gly Ser Met Val Gln Asp Glu Val Ser Gly Gln Leu
225                 230                 235                 240

Ile Leu Thr Asn Leu Ser Leu Thr Ser Ser Gly Thr Tyr Arg Cys Val
                245                 250                 255

Ala Thr Asn Gln Met Gly Ser Ala Ser Cys Glu Leu Thr Leu Ser Val
            260                 265                 270

Thr Glu Pro Ser Gln Gly Arg Val Ala Gly Ala Leu Ile Gly Val Leu
            275                 280                 285

Leu Gly Val Leu Leu Leu Ser Val Ala Ala Phe Cys Leu Val Arg Phe
```

5623

```
        290                      295                    300
Gln Lys Glu Arg Gly Lys Lys Pro Lys Glu Thr Tyr Gly Gly Ser Asp
305                      310                315                320

Leu Arg Glu Asp Ala Ile Ala Pro Gly Ile Ser Glu His Thr Cys Met
                325                      330                335

Arg Ala Asp Ser Ser Lys Gly Phe Leu Glu Arg Pro Ser Ser Ala Ser
            340                      345                350

Thr Val Thr Thr Thr Lys Ser Lys Leu Pro Met Val Val
            355                      360                365
```

<210> 6378
<211> 869
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6378
```
Trp Ile Pro Arg Ala Ala Gly Ile Arg His Glu Val Thr Xaa Ala Ser
  1               5                   10                15

Leu Tyr Leu Phe Glu Ala Thr Gly Lys Arg Phe Tyr Phe Lys Asn Val
                20                  25                30

Ala Ile Leu Ile Pro Glu Thr Trp Lys Thr Lys Ala Asp Tyr Val Arg
            35                  40                  45

Pro Lys Leu Glu Thr Tyr Lys Asn Ala Asp Val Leu Val Ala Glu Ser
    50                  55                  60

Thr Pro Pro Gly Asn Asp Glu Pro Tyr Thr Glu Gln Met Gly Asn Cys
65                  70                  75                  80

Gly Glu Lys Gly Glu Arg Ile His Leu Thr Pro Asp Phe Ile Ala Gly
                85                  90                  95

Lys Lys Leu Ala Glu Tyr Gly Pro Gln Gly Arg Ala Phe Val His Glu
            100                 105                 110

Trp Ala His Leu Arg Trp Gly Val Phe Asp Glu Tyr Asn Asn Asp Glu
            115                 120                 125
```

5624

Lys Phe Tyr Leu Ser Asn Gly Arg Ile Gln Ala Val Arg Cys Ser Ala
    130   135   140

Gly Ile Thr Gly Thr Asn Val Val Lys Lys Cys Gln Gly Gly Ser Cys
145   150   155   160

Tyr Thr Lys Arg Cys Thr Phe Asn Lys Val Thr Gly Leu Tyr Glu Lys
                165   170   175

Gly Cys Glu Phe Val Leu Gln Ser Arg Gln Thr Glu Lys Ala Ser Ile
            180   185   190

Met Phe Ala Gln His Val Asp Ser Ile Val Glu Phe Cys Thr Glu Gln
            195   200   205

Asn His Asn Lys Glu Ala Pro Asn Lys Gln Asn Gln Lys Cys Asn Leu
    210   215   220

Arg Ser Thr Trp Glu Val Ile Arg Asp Ser Glu Asp Phe Lys Lys Thr
225   230   235   240

Thr Pro Met Thr Thr Gln Pro Pro Asn Pro Thr Phe Ser Leu Leu Gln
            245   250   255

Ile Gly Gln Arg Ile Val Cys Leu Val Leu Asp Lys Ser Gly Ser Met
            260   265   270

Ala Thr Gly Asn Arg Leu Asn Arg Leu Asn Gln Ala Gly Gln Leu Phe
        275   280   285

Leu Leu Gln Thr Val Glu Leu Gly Ser Trp Val Gly Met Val Thr Phe
    290   295   300

Asp Ser Ala Ala His Val Gln Ser Glu Leu Ile Gln Ile Asn Ser Gly
305   310   315   320

Ser Asp Arg Asp Thr Leu Ala Lys Arg Leu Pro Ala Ala Ala Ser Gly
            325   330   335

Gly Thr Ser Ile Cys Ser Gly Leu Arg Ser Ala Phe Thr Val Ile Arg
            340   345   350

Lys Lys Tyr Pro Thr Asp Gly Ser Glu Ile Val Leu Leu Thr Asp Gly
        355   360   365

Glu Asp Asn Thr Ile Ser Gly Cys Phe Asn Glu Val Lys Gln Ser Gly
    370   375   380

Ala Ile Ile His Thr Val Ala Leu Gly Pro Ser Ala Ala Gln Glu Leu
385   390   395   400

5625

Glu Glu Leu Ser Lys Met Thr Gly Gly Leu Gln Thr Tyr Ala Ser Asp
            405   410   415

Gln Val Gln Asn Asn Gly Leu Ile Asp Ala Phe Gly Ala Leu Ser Ser
            420   425   430

Gly Asn Gly Ala Val Ser Gln Arg Ser Ile Gln Leu Glu Ser Lys Gly
        435   440   445

Leu Thr Leu Gln Asn Ser Gln Trp Met Asn Gly Thr Val Ile Val Asp
        450   455   460

Ser Thr Val Gly Lys Asp Thr Leu Phe Leu Ile Thr Trp Thr Thr Gln
465   470   475   480

Pro Pro Gln Ile Leu Leu Trp Asp Pro Ser Gly Gln Lys Gln Gly Gly
            485   490   495

Phe Val Val Asp Lys Asn Thr Lys Met Ala Tyr Leu Gln Ile Pro Gly
            500   505   510

Ile Ala Lys Val Gly Thr Trp Lys Tyr Ser Leu Gln Ala Ser Ser Gln
        515   520   525

Thr Leu Thr Leu Thr Val Thr Ser Arg Ala Ser Asn Ala Thr Leu Pro
        530   535   540

Pro Ile Thr Val Thr Ser Lys Thr Asn Lys Asp Thr Ser Lys Phe Pro
545   550   555   560

Ser Pro Leu Val Val Tyr Ala Asn Ile Arg Gln Gly Ala Ser Pro Ile
            565   570   575

Leu Arg Ala Ser Val Thr Ala Leu Ile Glu Ser Val Asn Gly Lys Thr
            580   585   590

Val Thr Leu Glu Leu Leu Asp Asn Gly Ala Gly Ala Asp Ala Thr Lys
            595   600   605

Asp Asp Gly Val Tyr Ser Arg Tyr Phe Thr Thr Tyr Asp Thr Asn Gly
        610   615   620

Arg Tyr Ser Val Lys Val Arg Ala Leu Gly Gly Val Asn Ala Ala Arg
625   630   635   640

Arg Arg Val Ile Pro Gln Gln Ser Gly Ala Leu Tyr Ile Pro Gly Trp
            645   650   655

Ile Glu Asn Asp Glu Ile Gln Trp Asn Pro Pro Arg Pro Glu Ile Asn
            660   665   670

5626

Lys Asp Asp Val Gln His Lys Gln Val Cys Phe Ser Arg Thr Ser Ser
        675   680   685

Gly Gly Ser Phe Val Ala Ser Asp Val Pro Asn Ala Pro Ile Pro Asp
    690   695   700

Leu Phe Pro Pro Gly Gln Ile Thr Asp Leu Lys Ala Glu Ile His Gly
705   710   715   720

Gly Ser Leu Ile Asn Leu Thr Trp Thr Ala Pro Gly Asp Asp Tyr Asp
                725   730   735

His Gly Thr Ala His Lys Tyr Ile Ile Arg Ile Ser Thr Ser Ile Leu
            740   745   750

Asp Leu Arg Asp Lys Phe Asn Glu Ser Leu Gln Val Asn Thr Thr Ala
        755   760   765

Leu Ile Pro Lys Glu Ala Asn Ser Glu Glu Val Phe Leu Phe Lys Pro
    770   775   780

Glu Asn Ile Thr Phe Glu Asn Gly Thr Asp Leu Phe Ile Ala Ile Gln
785   790   795   800

Ala Val Asp Lys Val Asp Leu Lys Ser Glu Ile Ser Asn Ile Ala Arg
            805   810   815

Val Ser Leu Phe Ile Pro Pro Gln Thr Pro Pro Glu Thr Pro Ser Pro
            820   825   830

Asp Glu Thr Ser Ala Pro Cys Pro Asn Ile His Ile Asn Ser Thr Ile
        835   840   845

Pro Gly Ile His Ile Leu Lys Ile Met Trp Lys Trp Ile Gly Glu Leu
    850   855   860

Gln Leu Ser Ile Ala
865

<210> 6379
<211> 275
<212> PRT
<213> Homo sapiens

<400> 6379
Pro Thr Arg Pro His Ser Ser Gly Tyr Leu Pro Thr Met Ala Leu Val
    1   5   10   15

Leu Ile Leu Gln Leu Leu Thr Leu Trp Pro Leu Cys His Thr Asp Ile

5627

```
                20                      25                      30

Thr Pro Ser Val Pro Pro Ala Ser Tyr His Pro Lys Pro Trp Leu Gly
        35              40              45

Ala Gln Pro Ala Thr Val Val Thr Pro Gly Val Asn Val Thr Leu Arg
    50              55              60

Cys Arg Ala Pro Gln Pro Ala Trp Arg Phe Gly Leu Phe Lys Pro Gly
65              70              75              80

Glu Ile Ala Pro Leu Leu Phe Arg Asp Val Ser Ser Glu Leu Ala Glu
            85              90                  95

Phe Phe Leu Glu Glu Val Thr Pro Ala Gln Gly Gly Ser Tyr Arg Cys
        100             105             110

Cys Tyr Arg Arg Pro Asp Trp Gly Pro Gly Val Trp Ser Gln Pro Ser
        115             120             125

Asp Val Leu Glu Leu Leu Val Thr Glu Glu Leu Pro Arg Pro Ser Leu
    130             135             140

Val Ala Leu Pro Gly Pro Val Val Gly Pro Gly Ala Asn Val Ser Leu
145             150             155             160

Arg Cys Ala Gly Arg Leu Arg Asn Met Ser Phe Val Leu Tyr Arg Glu
            165             170             175

Gly Val Ala Ala Pro Leu Gln Tyr Arg His Ser Ala Gln Pro Trp Ala
            180             185             190

Asp Phe Thr Leu Leu Gly Ala Arg Ala Pro Gly Thr Tyr Ser Cys Tyr
        195             200             205

Tyr His Thr Pro Ser Ala Pro Tyr Val Leu Ser Gln Arg Ser Glu Val
    210             215             220

Leu Val Ile Ser Trp Glu Asp Ser Gly Ser Ser Asp Tyr Thr Arg Gly
225             230             235             240

Asn Leu Val Arg Leu Gly Leu Ala Gly Leu Val Leu Ile Ser Leu Gly
            245             250             255

Ala Leu Val Thr Phe Asp Trp Arg Ser Gln Asn Arg Ala Pro Ala Gly
            260             265             270

Ile Arg Pro
            275
```

5628

```
<210> 6380
<211> 708
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (53)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6380
Pro Arg Arg Leu Leu Ser Thr Ser Arg Arg Cys Ser Arg Arg Arg Arg
 1               5                   10                  15

Leu Ala Val Arg Cys Gln Ala Ala Pro Ser Pro Gly Ala Arg Arg Leu
            20                  25                  30

Ala Cys Arg Gly Ala Pro Gly Arg Thr Ala Arg Pro Ala Pro Pro Pro
        35                  40                  45

Gly Ser Phe Gly Xaa Ala Met Gly Cys Cys Ser Ser Ala Ser Ser Ala
    50                  55                  60

Ala Gln Ser Ser Lys Arg Glu Trp Lys Pro Leu Glu Asp Arg Ser Cys
65                  70                  75                  80

Thr Asp Ile Pro Trp Leu Leu Leu Phe Ile Leu Phe Cys Ile Gly Met
                85                  90                  95

Gly Phe Ile Cys Gly Phe Ser Ile Ala Thr Gly Ala Ala Ala Arg Leu
            100                 105                 110

Val Ser Gly Tyr Asp Ser Tyr Gly Asn Ile Cys Gly Gln Lys Asn Thr
        115                 120                 125

Lys Leu Glu Ala Ile Pro Asn Ser Gly Met Asp His Thr Gln Arg Lys
        130                 135                 140

Tyr Val Phe Phe Leu Asp Pro Cys Asn Leu Asp Leu Ile Asn Arg Lys
145                 150                 155                 160

Ile Lys Ser Val Ala Leu Cys Val Ala Ala Cys Pro Arg Gln Glu Leu
            165                 170                 175

Lys Thr Leu Ser Asp Val Gln Lys Phe Ala Glu Ile Asn Gly Ser Ala
            180                 185                 190

Leu Cys Ser Tyr Asn Leu Lys Pro Ser Glu Tyr Thr Thr Ser Pro Lys
        195                 200                 205
```

5629

```
Ser Ser Val Leu Cys Pro Lys Leu Pro Val Pro Ala Ser Ala Pro Ile
    210             215             220

Pro Phe Phe His Arg Cys Ala Pro Val Asn Ile Ser Cys Tyr Ala Lys
225                 230             235                 240

Phe Ala Glu Ala Leu Ile Thr Phe Val Ser Asp Asn Ser Val Leu His
                245             250             255

Arg Leu Ile Ser Gly Val Met Thr Ser Lys Glu Ile Ile Leu Gly Leu
            260             265             270

Cys Leu Leu Ser Leu Val Leu Ser Met Ile Leu Met Val Ile Ile Arg
        275             280             285

Tyr Ile Ser Arg Val Leu Val Trp Ile Leu Thr Ile Leu Val Ile Leu
    290             295             300

Gly Ser Leu Gly Gly Thr Gly Val Leu Trp Trp Leu Tyr Ala Lys Gln
305             310             315             320

Arg Arg Ser Pro Lys Glu Thr Val Thr Pro Glu Gln Leu Gln Ile Ala
            325             330             335

Glu Asp Asn Leu Arg Ala Leu Leu Ile Tyr Ala Ile Ser Ala Thr Val
            340             345             350

Phe Thr Val Ile Leu Phe Leu Ile Met Leu Val Met Arg Lys Arg Val
        355             360             365

Ala Leu Thr Ile Ala Leu Phe His Val Ala Gly Lys Val Phe Ile His
    370             375             380

Leu Pro Leu Leu Val Phe Gln Pro Phe Trp Thr Phe Phe Ala Leu Val
385             390             395             400

Leu Phe Trp Val Tyr Trp Ile Met Thr Leu Leu Phe Leu Gly Thr Thr
            405             410             415

Gly Ser Pro Val Gln Asn Glu Gln Gly Phe Val Glu Phe Lys Ile Ser
            420             425             430

Gly Pro Leu Gln Tyr Met Trp Trp Tyr His Val Val Gly Leu Ile Trp
        435             440             445

Ile Ser Glu Phe Ile Leu Ala Cys Gln Gln Met Thr Val Ala Gly Ala
    450             455             460

Val Val Thr Tyr Tyr Phe Thr Arg Asp Lys Arg Asn Leu Pro Phe Thr
465             470             475             480
```

5630

```
Pro Ile Leu Ala Ser Val Asn Arg Leu Ile Arg Tyr His Leu Gly Thr
            485                 490                 495

Val Ala Lys Gly Ser Phe Ile Ile Thr Leu Val Lys Ile Pro Arg Met
            500                 505                 510

Ile Leu Met Tyr Ile His Ser Gln Leu Lys Gly Lys Glu Asn Ala Cys
            515                 520                 525

Ala Arg Cys Val Leu Lys Ser Cys Ile Cys Cys Leu Trp Cys Leu Glu
    530                 535                 540

Lys Cys Leu Asn Tyr Leu Asn Gln Asn Ala Tyr Thr Ala Thr Ala Ile
545                 550                 555                 560

Asn Ser Thr Asn Phe Cys Thr Ser Ala Lys Asp Ala Phe Val Ile Leu
            565                 570                 575

Val Glu Asn Ala Leu Arg Val Ala Thr Ile Asn Thr Val Gly Asp Phe
            580                 585                 590

Met Leu Phe Leu Gly Lys Val Leu Ile Val Cys Ser Thr Gly Leu Ala
            595                 600                 605

Gly Ile Met Leu Leu Asn Tyr Gln Gln Asp Tyr Thr Val Trp Val Leu
    610                 615                 620

Pro Leu Ile Ile Val Cys Leu Phe Ala Phe Leu Val Ala His Cys Phe
625                 630                 635                 640

Leu Ser Ile Tyr Glu Met Val Val Asp Val Leu Phe Leu Cys Phe Ala
            645                 650                 655

Ile Asp Thr Lys Tyr Asn Asp Gly Ser Pro Gly Arg Glu Phe Tyr Met
            660                 665                 670

Asp Lys Val Leu Met Glu Phe Val Glu Asn Ser Arg Lys Ala Met Lys
            675                 680                 685

Glu Ala Gly Lys Gly Gly Val Ala Asp Ser Arg Glu Leu Lys Pro Met
    690                 695                 700

Leu Lys Lys Arg
705
```

<210> 6381
<211> 625
<212> PRT
<213> Homo sapiens

```
<220>
<221> SITE
<222> (105)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (222)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (231)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (278)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (279)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (440)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6381
Ala Val Arg Leu Pro Ala Ala Tyr Ile Lys Ala Pro Gly His Ala Glu
  1               5                  10                  15

Pro Ser Ser Arg Thr Arg Pro Thr Thr Met Arg Ser Cys Leu Trp Arg
               20                  25                  30

Cys Arg His Leu Ser Gln Gly Val Gln Trp Ser Leu Leu Leu Ala Val
           35                  40                  45

Leu Val Phe Phe Leu Phe Ala Leu Pro Ser Phe Ile Lys Glu Pro Gln
       50                  55                  60

Thr Lys Pro Ser Arg His Gln Arg Thr Glu Asn Ile Lys Glu Arg Ser
 65                  70                  75                  80

Leu Gln Ser Leu Ala Lys Pro Lys Ser Gln Ala Pro Thr Arg Ala Arg
               85                  90                  95

Arg Thr Thr Ile Tyr Ala Glu Pro Xaa Pro Glu Asn Asn Ala Leu Asn
```

5632

```
                100                 105                 110

Thr Gln Thr Gln Pro Lys Ala His Thr Thr Gly Asp Arg Gly Lys Glu
        115                 120                 125

Ala Asn Gln Ala Pro Pro Glu Glu Gln Asp Lys Val Pro His Thr Ala
    130                 135                 140

Gln Arg Ala Ala Trp Lys Ser Pro Glu Lys Glu Lys Thr Met Val Asn
145                 150                 155                 160

Thr Leu Ser Pro Arg Gly Gln Asp Ala Gly Met Ala Ser Gly Arg Thr
                165                 170                 175

Glu Ala Gln Ser Trp Lys Ser Gln Asp Thr Lys Thr Thr Gln Gly Asn
                180                 185                 190

Gly Gly Gln Thr Arg Lys Leu Thr Ala Ser Arg Thr Val Ser Glu Lys
            195                 200                 205

His Gln Gly Lys Ala Ala Thr Thr Ala Lys Thr Leu Ile Xaa Lys Ser
        210                 215                 220

Gln His Arg Met Leu Ala Xaa Thr Gly Ala Val Ser Thr Arg Thr Arg
225                 230                 235                 240

Gln Lys Gly Val Thr Thr Ala Val Ile Pro Pro Lys Glu Lys Lys Pro
                245                 250                 255

Gln Ala Thr Pro Pro Pro Ala Pro Phe Gln Ser Pro Thr Thr Gln Arg
            260                 265                 270

Asn Gln Arg Leu Lys Xaa Xaa Asn Phe Lys Ser Glu Pro Arg Trp Asp
        275                 280                 285

Phe Glu Glu Lys Tyr Ser Phe Glu Ile Gly Gly Leu Gln Thr Thr Cys
    290                 295                 300

Pro Asp Ser Val Lys Ile Lys Ala Ser Lys Ser Leu Trp Leu Gln Lys
305                 310                 315                 320

Leu Phe Leu Pro Asn Leu Thr Leu Phe Leu Asp Ser Arg His Phe Asn
                325                 330                 335

Gln Ser Glu Trp Asp Arg Leu Glu His Phe Ala Pro Pro Phe Gly Phe
            340                 345                 350

Met Glu Leu Asn Tyr Ser Leu Val Gln Lys Val Val Thr Arg Phe Pro
            355                 360                 365

Pro Val Pro Gln Gln Gln Leu Leu Leu Ala Ser Leu Pro Ala Gly Ser
```

5633

```
              370                    375                    380

Leu Arg Cys Ile Thr Cys Ala Val Val Gly Asn Gly Gly Ile Leu Asn
385                 390                 395                 400

Asn Ser His Met Gly Gln Glu Ile Asp Ser His Asp Tyr Val Phe Arg
                405                 410                 415

Leu Ser Gly Ala Leu Ile Lys Gly Tyr Glu Gln Asp Val Gly Thr Arg
                420                 425                 430

Thr Ser Phe Tyr Gly Phe Thr Xaa Phe Ser Leu Thr Gln Ser Leu Leu
                435                 440                 445

Ile Leu Gly Asn Arg Gly Phe Lys Asn Val Pro Leu Gly Lys Asp Val
    450                 455                 460

Arg Tyr Leu His Phe Leu Glu Gly Thr Arg Asp Tyr Glu Trp Leu Glu
465                 470                 475                 480

Ala Leu Leu Met Asn Gln Thr Val Met Ser Lys Asn Leu Phe Trp Phe
                485                 490                 495

Arg His Arg Pro Gln Glu Ala Phe Arg Glu Ala Leu His Met Asp Arg
                500                 505                 510

Tyr Leu Leu Leu His Pro Asp Phe Leu Arg Tyr Met Lys Asn Arg Phe
                515                 520                 525

Leu Arg Ser Lys Thr Leu Asp Gly Ala His Trp Arg Ile Tyr Arg Pro
    530                 535                 540

Thr Thr Gly Ala Leu Leu Leu Leu Thr Ala Leu Gln Leu Cys Asp Gln
545                 550                 555                 560

Val Ser Ala Tyr Gly Phe Ile Thr Glu Gly His Glu Arg Phe Ser Asp
                565                 570                 575

His Tyr Tyr Asp Thr Ser Trp Lys Arg Leu Ile Phe Tyr Ile Asn His
                580                 585                 590

Asp Phe Lys Leu Glu Arg Glu Val Trp Lys Arg Leu His Asp Glu Gly
                595                 600                 605

Ile Ile Arg Leu Tyr Gln Arg Pro Gly Pro Gly Thr Ala Lys Ala Lys
    610                 615                 620

Asn
625
```

5634

<210> 6382
<211> 299
<212> PRT
<213> Homo sapiens

<400> 6382
Gln Met Glu Lys Lys Glu Cys Pro Glu Lys Ser Ser Ser Ser Glu Glu
 1   5   10   15

Glu Leu Pro Arg Arg Val Tyr Arg Glu Leu Pro Cys Val Ser Glu Thr
                20   25   30

Leu Cys Asp Ile Ser His Phe Phe Gln Glu Asp Asp Glu Thr Glu Ala
            35   40   45

Glu Pro Leu Leu Phe Arg Ala Val Pro Glu Cys Gln Leu Ser Gly Gly
    50   55   60

Asp Ile Pro Ser Val Ser Glu Glu Gln Glu Ser Ser Glu Gly Gln Asp
65   70   75   80

Ser Gly Asp Ile Cys Ser Glu Glu Asn Gln Ile Val Ser Ser Tyr Ala
            85   90   95

Ser Lys Val Cys Phe Glu Ile Glu Glu Asp Tyr Lys Asn Arg Gln Phe
            100   105   110

Leu Gly Pro Glu Gly Asn Val Asp Val Glu Leu Ile Asp Lys Ser Thr
        115   120   125

Asn Arg Tyr Ser Val Trp Phe Pro Thr Ala Gly Trp Tyr Leu Trp Ser
    130   135   140

Ala Thr Gly Leu Gly Phe Leu Val Arg Asp Glu Val Thr Val Thr Ile
145   150   155   160

Ala Phe Gly Ser Trp Ser Gln His Leu Ala Leu Asp Leu Gln His His
            165   170   175

Glu Gln Trp Leu Val Gly Gly Pro Leu Phe Asp Val Thr Ala Glu Pro
            180   185   190

Glu Glu Ala Val Ala Glu Ile His Leu Pro His Phe Ile Ser Leu Gln
        195   200   205

Ala Gly Glu Val Asp Val Ser Trp Phe Leu Val Ala His Phe Lys Asn
    210   215   220

Glu Gly Met Val Leu Glu His Pro Ala Arg Val Glu Pro Phe Tyr Ala
225   230   235   240

5635

```
Val Leu Glu Ser Pro Ser Phe Ser Leu Met Gly Ile Leu Leu Arg Ile
            245             250             255

Ala Ser Gly Thr Arg Leu Ser Ile Pro Ile Thr Ser Asn Thr Leu Ile
            260             265             270

Tyr Tyr His Pro His Pro Glu Asp Ile Lys Phe His Leu Tyr Leu Val
        275             280             285

Pro Ser Asp Ala Leu Leu Thr Lys Thr Leu Phe
    290             295
```

```
<210> 6383
<211> 273
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (210)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6383
Glu Thr Arg Val Lys Thr Ser Leu Glu Leu Leu Arg Thr Gln Leu Glu
  1             5             10              15

Pro Thr Gly Thr Val Gly Asn Thr Ile Met Thr Ser Gln Pro Val Pro
            20              25              30

Asn Glu Thr Ile Ile Val Leu Pro Ser Asn Val Ile Asn Phe Ser Gln
        35              40              45

Ala Glu Lys Pro Glu Pro Thr Asn Gln Gly Gln Asp Ser Leu Lys Lys
    50              55              60

His Leu His Ala Glu Ile Lys Val Ile Gly Thr Ile Gln Ile Leu Cys
 65              70              75              80

Gly Met Met Val Leu Ser Leu Gly Ile Ile Leu Ala Ser Ala Ser Phe
            85              90              95

Ser Pro Asn Phe Thr Gln Val Thr Ser Thr Leu Leu Asn Ser Ala Tyr
            100             105             110

Pro Phe Ile Gly Pro Phe Phe Phe Ile Ile Ser Gly Ser Leu Ser Ile
            115             120             125

Ala Thr Glu Lys Arg Leu Thr Lys Leu Leu Val His Ser Ser Leu Val
```

5636

```
        130                    135                    140

Gly Ser Ile Leu Ser Ala Leu Ser Ala Leu Val Gly Phe Ile Ile Leu
145                    150                    155                    160

Ser Val Lys Gln Ala Thr Leu Asn Pro Ala Ser Leu Gln Cys Glu Leu
                   165                    170                    175

Asp Lys Asn Asn Ile Pro Thr Arg Ser Tyr Val Ser Tyr Phe Tyr His
                   180                    185                    190

Asp Ser Leu Tyr Thr Thr Asp Cys Tyr Thr Ala Lys Ala Ser Leu Ala
                   195                    200                    205

Gly Xaa Leu Ser Leu Met Leu Ile Cys Thr Leu Leu Glu Phe Cys Leu
        210                    215                    220

Ala Val Leu Thr Ala Val Leu Arg Trp Lys Gln Ala Tyr Ser Asp Phe
225                    230                    235                    240

Pro Gly Ser Val Leu Phe Leu Pro His Ser Tyr Ile Gly Asn Ser Gly
                   245                    250                    255

Met Ser Ser Lys Met Thr His Asp Cys Gly Tyr Glu Glu Leu Leu Thr
                   260                    265                    270

Ser
```

```
<210> 6384
<211> 166
<212> PRT
<213> Homo sapiens

<400> 6384
Leu His Pro Gln Gly Arg Arg Lys Met Ala Ser Arg Ser Met Arg Leu
    1                    5                    10                    15

Leu Leu Leu Leu Ser Cys Leu Ala Lys Thr Gly Val Leu Gly Asp Ile
                   20                    25                    30

Ile Met Arg Pro Ser Cys Ala Pro Gly Trp Phe Tyr His Lys Ser Asn
        35                    40                    45

Cys Tyr Gly Tyr Phe Arg Lys Leu Arg Asn Trp Ser Asp Ala Glu Leu
        50                    55                    60

Glu Cys Gln Ser Tyr Gly Asn Gly Ala His Leu Ala Ser Ile Leu Ser
    65                    70                    75                    80
```

5637

Leu Lys Glu Ala Ser Thr Ile Ala Glu Tyr Ile Ser Gly Tyr Gln Arg
                85   90   95

Ser Gln Pro Ile Trp Ile Gly Leu His Asp Pro Gln Lys Arg Gln Gln
            100   105   110

Trp Gln Trp Ile Asp Gly Ala Met Tyr Leu Tyr Arg Ser Trp Ser Gly
        115   120   125

Lys Ser Met Gly Gly Asn Lys His Cys Ala Glu Met Ser Ser Asn Asn
    130   135   140

Asn Phe Leu Thr Trp Ser Ser Asn Glu Cys Asn Lys Arg Gln His Phe
145   150   155   160

Leu Cys Lys Tyr Arg Pro
                165

<210> 6385
<211> 202
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6385
Xaa Pro Gly Arg Thr Ser Xaa Thr Pro His Pro Ser Arg Arg Leu Thr
 1   5   10   15

Gln Gly Arg Trp Val Arg Lys Ser Arg Val Ala Met Glu Lys Ile Pro
            20   25   30

Val Ser Ala Phe Leu Leu Leu Val Ala Leu Ser Tyr Thr Leu Ala Arg
        35   40   45

Asp Thr Thr Val Lys Pro Gly Ala Lys Lys Asp Thr Lys Asp Ser Arg
    50   55   60

Pro Lys Leu Pro Gln Thr Leu Ser Arg Gly Trp Gly Asp Gln Leu Ile
65   70   75   80

5638

Trp Thr Gln Thr Tyr Glu Glu Ala Leu Tyr Lys Ser Lys Thr Ser Asn
              85   90   95

Lys Pro Leu Met Ile Ile His His Leu Asp Glu Cys Pro His Ser Gln
              100   105   110

Ala Leu Lys Lys Val Phe Ala Glu Asn Lys Glu Ile Gln Lys Leu Ala
              115   120   125

Glu Gln Phe Val Leu Leu Asn Leu Val Tyr Glu Thr Thr Asp Lys His
    130   135   140

Leu Ser Pro Asp Gly Gln Tyr Val Pro Arg Ile Met Phe Val Asp Pro
145   150   155   160

Ser Leu Thr Val Arg Ala Asp Ile Thr Gly Arg Tyr Ser Asn Arg Leu
              165   170   175

Tyr Ala Tyr Glu Pro Ala Asp Thr Ala Leu Leu Leu Asp Asn Met Lys
              180   185   190

Lys Ala Leu Lys Leu Leu Lys Thr Glu Leu
              195   200

<210> 6386
<211> 251
<212> PRT
<213> Homo sapiens

<400> 6386
Arg Ser Gly Ser Leu Met Ala Ala Ala Ala Thr Lys Ile Leu Leu
    1   5   10   15

Cys Leu Pro Leu Leu Leu Leu Ser Gly Trp Ser Arg Ala Gly Arg
              20   25   30

Ala Asp Pro His Ser Leu Cys Tyr Asp Ile Thr Val Ile Pro Lys Phe
              35   40   45

Arg Pro Gly Pro Arg Trp Cys Ala Val Gln Gly Gln Val Asp Glu Lys
    50   55   60

Thr Phe Leu His Tyr Asp Cys Gly Asn Lys Thr Val Thr Pro Val Ser
65   70   75   80

Pro Leu Gly Lys Lys Leu Asn Val Thr Thr Ala Trp Lys Ala Gln Asn
              85   90   95

5639

Pro Val Leu Arg Glu Val Val Asp Ile Leu Thr Glu Gln Leu Arg Asp
            100   105   110

Ile Gln Leu Glu Asn Tyr Thr Pro Lys Glu Pro Leu Thr Leu Gln Ala
            115   120   125

Arg Met Ser Cys Glu Gln Lys Ala Glu Gly His Ser Ser Gly Ser Trp
        130   135   140

Gln Phe Ser Phe Asp Gly Gln Ile Phe Leu Leu Phe Asp Ser Glu Lys
145   150   155   160

Arg Met Trp Thr Thr Val His Pro Gly Ala Arg Lys Met Lys Glu Lys
                165   170   175

Trp Glu Asn Asp Lys Val Val Ala Met Ser Phe His Tyr Phe Ser Met
            180   185   190

Gly Asp Cys Ile Gly Trp Leu Glu Asp Phe Leu Met Gly Met Asp Ser
        195   200   205

Thr Leu Glu Pro Ser Ala Gly Ala Pro Leu Ala Met Ser Ser Gly Thr
    210   215   220

Thr Gln Leu Arg Ala Thr Ala Thr Thr Leu Ile Leu Cys Cys Leu Leu
225   230   235   240

Ile Ile Leu Pro Cys Phe Ile Leu Pro Gly Ile
                245   250

<210> 6387
<211> 241
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (205)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6387
Arg Asp Pro Pro Arg Pro Val Gln Ser Gly Leu Gly Ala Ala Gly Thr
 1   5   10   15

Leu Ser Trp Leu Pro Pro Pro Glu Gln Pro Val Leu Val Pro Arg Leu
            20   25   30

Pro Ala Pro Arg Pro Val Met Thr Leu Arg Pro Ser Leu Leu Pro Leu
        35   40   45

5640

His Leu Leu Leu Leu Leu Leu Ser Ala Ala Val Cys Arg Ala Glu
    50   55   60

Ala Gly Leu Glu Thr Glu Ser Pro Val Arg Thr Leu Gln Val Glu Thr
65   70   75   80

Leu Val Glu Pro Pro Glu Pro Cys Ala Glu Pro Ala Ala Phe Gly Asp
            85   90   95

Thr Leu His Ile His Tyr Thr Gly Ser Leu Val Asp Gly Arg Ile Ile
        100   105   110

Asp Thr Ser Leu Thr Arg Asp Pro Leu Val Ile Glu Leu Gly Gln Lys
        115   120   125

Gln Val Ile Pro Gly Leu Glu Gln Ser Leu Leu Asp Met Cys Val Gly
    130   135   140

Glu Lys Arg Arg Ala Ile Ile Pro Ser His Leu Ala Tyr Gly Lys Arg
145   150   155   160

Gly Phe Pro Pro Ser Val Pro Ala Asp Ala Val Val Gln Tyr Asp Val
            165   170   175

Glu Leu Ile Ala Leu Ile Arg Ala Asn Tyr Trp Leu Lys Leu Val Lys
        180   185   190

Gly Ile Leu Pro Leu Val Gly Met Ala Met Val Pro Xaa Ser Trp Ala
        195   200   205

Ser Leu Gly Ile Thr Tyr Thr Glu Arg Pro Ile Asp Pro Lys Ser Pro
    210   215   220

Lys Arg Ser Ser Arg Lys Arg Asn Glu Thr Arg Ala Lys Arg Asn Asn
225   230   235   240

Lys

<210> 6388
<211> 223
<212> PRT
<213> Homo sapiens

<400> 6388
Gly Phe Leu Leu His Pro Val Tyr Leu Leu Arg Val Ser Phe Pro Leu
    1   5   10   15

5641

```
Pro Thr Pro Ala Gly Gln Ser Trp Ala Pro Ala Pro Glu His Ser Arg
         20              25              30

Ala Ala Arg Val Ser Arg Leu Glu Thr His Asp Thr Lys Glu Ile Gln
         35              40              45

Val Lys Lys Tyr Lys Cys Gly Leu Ile Lys Pro Cys Pro Ala Asn Tyr
     50              55              60

Phe Ala Phe Lys Ile Cys Ser Gly Ala Ala Asn Val Val Gly Pro Thr
65              70              75              80

Met Cys Phe Glu Asp Arg Met Ile Met Ser Pro Val Lys Asn Asn Val
             85              90              95

Gly Arg Gly Leu Asn Ile Ala Leu Val Asn Gly Thr Thr Gly Ala Val
         100             105             110

Leu Gly Gln Lys Ala Phe Asp Met Tyr Ser Gly Asp Val Met His Leu
         115             120             125

Val Lys Phe Leu Lys Glu Ile Pro Gly Gly Ala Leu Val Leu Val Ala
     130             135             140

Ser Tyr Asp Asp Pro Gly Thr Lys Met Asn Asp Glu Ser Arg Lys Leu
145             150             155             160

Phe Ser Asp Leu Gly Ser Ser Tyr Ala Lys Gln Leu Gly Phe Arg Asp
             165             170             175

Ser Trp Val Phe Ile Gly Ala Lys Asp Leu Arg Gly Lys Ser Pro Phe
             180             185             190

Glu Gln Phe Leu Lys Asn Ser Pro Asp Thr Asn Lys Tyr Glu Gly Trp
         195             200             205

Pro Glu Leu Leu Glu Met Glu Gly Cys Met Pro Pro Lys Pro Phe
     210             215             220
```

<210> 6389
<211> 268
<212> PRT
<213> Homo sapiens

<400> 6389
```
Pro Gly Ser Asp Val Ala Phe His Phe Asn Pro Arg Phe Asp Gly Trp
  1           5               10              15

Asp Lys Val Val Phe Asn Thr Leu Gln Gly Gly Lys Trp Gly Ser Glu
```

5642

```
                    20                    25                    30

      Glu Arg Lys Arg Ser Met Pro Phe Lys Lys Gly Ala Ala Phe Glu Leu
              35                    40                    45

      Val Phe Ile Val Leu Ala Glu His Tyr Lys Val Val Val Asn Gly Asn
              50                    55                    60

      Pro Phe Tyr Glu Tyr Gly His Arg Leu Pro Leu Gln Met Val Thr His
      65                    70                    75                    80

      Leu Gln Val Asp Gly Asp Leu Gln Leu Gln Ser Ile Asn Phe Ile Gly
                          85                    90                    95

      Gly Gln Pro Leu Arg Pro Gln Gly Pro Pro Met Met Pro Pro Tyr Pro
                      100                   105                   110

      Gly Pro Gly His Cys His Gln Gln Leu Asn Ser Leu Pro Thr Met Glu
                      115                   120                   125

      Gly Pro Pro Thr Phe Asn Pro Pro Val Pro Tyr Phe Gly Arg Leu Gln
                      130                   135                   140

      Gly Gly Leu Thr Ala Arg Arg Thr Ile Ile Ile Lys Gly Tyr Val Pro
      145                   150                   155                   160

      Pro Thr Gly Lys Ser Phe Ala Ile Asn Phe Lys Val Gly Ser Ser Gly
                      165                   170                   175

      Asp Ile Ala Leu His Ile Asn Pro Arg Met Gly Asn Gly Thr Val Val
                      180                   185                   190

      Arg Asn Ser Leu Leu Asn Gly Ser Trp Gly Ser Glu Glu Lys Lys Ile
                      195                   200                   205

      Thr His Asn Pro Phe Gly Pro Gly Gln Phe Phe Asp Leu Ser Ile Arg
                      210                   215                   220

      Cys Gly Leu Asp Arg Phe Lys Val Tyr Ala Asn Gly Gln His Leu Phe
      225                   230                   235                   240

      Asp Phe Ala His Arg Leu Ser Ala Phe Gln Arg Val Asp Thr Leu Glu
                      245                   250                   255

      Ile Gln Gly Asp Val Thr Leu Ser Tyr Val Gln Ile
                      260                   265
```

```
      <210> 6390
      <211> 279
```

5643

<212> PRT
<213> Homo sapiens

<400> 6390
Pro Arg Val Arg Pro Arg Val Arg Trp Thr Ala Ala Met Arg Leu Thr
 1   5   10   15

Val Leu Cys Ala Val Cys Leu Leu Pro Gly Ser Leu Ala Leu Pro Leu
            20   25   30

Pro Gln Glu Ala Gly Gly Met Ser Glu Leu Gln Trp Glu Gln Ala Gln
            35   40   45

Asp Tyr Leu Lys Arg Phe Tyr Leu Tyr Asp Ser Glu Thr Lys Asn Ala
        50   55   60

Asn Ser Leu Glu Ala Lys Leu Lys Glu Met Gln Lys Phe Phe Gly Leu
 65   70   75   80

Pro Ile Thr Gly Met Leu Asn Ser Arg Val Ile Glu Ile Met Gln Lys
                85   90   95

Pro Arg Cys Gly Val Pro Asp Val Ala Glu Tyr Ser Leu Phe Pro Asn
            100   105   110

Ser Pro Lys Trp Thr Ser Lys Val Val Thr Tyr Arg Ile Val Ser Tyr
            115   120   125

Thr Arg Asp Leu Pro His Ile Thr Val Asp Arg Leu Val Ser Lys Ala
        130   135   140

Leu Asn Met Trp Gly Lys Glu Ile Pro Leu His Phe Arg Lys Val Val
145   150   155   160

Trp Gly Thr Ala Asp Ile Met Ile Gly Phe Ala Arg Gly Ala His Gly
                165   170   175

Asp Ser Tyr Pro Phe Asp Gly Pro Gly Asn Thr Leu Ala His Ala Phe
            180   185   190

Ala Pro Gly Thr Gly Leu Gly Gly Asp Ala His Phe Asp Glu Asp Glu
            195   200   205

Arg Trp Thr Asp Gly Ser Ser Leu Gly Ile Asn Phe Leu Tyr Ala Ala
        210   215   220

Thr His Glu Leu Gly His Ser Leu Gly Met Gly His Ser Ser Asp Pro
225   230   235   240

Asn Ala Val Met Tyr Pro Thr Tyr Gly Asn Gly Asp Pro Gln Asn Phe
                245   250   255

5644

Lys Leu Ser Gln Asp Asp Ile Lys Gly Ile Gln Lys Leu Tyr Gly Lys
            260   265   270

Arg Ser Asn Ser Arg Lys Lys
        275

<210> 6391
<211> 245
<212> PRT
<213> Homo sapiens

<400> 6391
Leu Gln Phe Ser Arg Glu Glu Ala Gly Val Asp Leu Val Ser Pro Thr
  1   5   10   15

Pro Leu Thr Pro Pro Asp Pro Gly Ala Ala Ser Ala Thr Ala Thr Ala
            20   25   30

Pro Ala Pro Ala Ala Ala Arg Arg Gly Glu Ala Met Ala Lys Val Ser
            35   40   45

Val Leu Asn Val Ala Val Leu Glu Asn Pro Ser Pro Phe His Ser Pro
        50   55   60

Phe Arg Phe Glu Ile Ser Phe Glu Cys Ser Glu Ala Leu Ala Asp Asp
 65   70   75   80

Leu Glu Trp Lys Ile Ile Tyr Val Gly Ser Ala Glu Ser Glu Glu Phe
                85   90   95

Asp Gln Ile Leu Asp Ser Val Leu Val Gly Pro Val Pro Ala Gly Arg
            100   105   110

His Met Phe Val Phe Gln Ala Asp Ala Pro Asn Pro Ser Leu Ile Pro
            115   120   125

Glu Thr Asp Ala Val Gly Val Thr Val Val Leu Ile Thr Cys Thr Tyr
        130   135   140

His Gly Gln Glu Phe Ile Arg Val Gly Tyr Tyr Val Asn Asn Glu Tyr
145   150   155   160

Leu Asn Pro Glu Leu Arg Glu Asn Pro Pro Met Lys Pro Asp Phe Ser
                165   170   175

Gln Leu Gln Arg Asn Ile Leu Ala Ser Asn Pro Arg Val Thr Arg Phe
            180   185   190

5645

```
His Ile Asn Trp Asp Asn Asn Met Asp Arg Leu Glu Ala Ile Glu Thr
        195             200             205

Gln Asp Pro Ser Leu Gly Cys Gly Leu Pro Leu Asn Cys Thr Pro Ile
        210             215             220

Lys Gly Leu Gly Leu Pro Gly Cys Ile Pro Gly Leu Leu Pro Glu Asn
225                     230             235             240

Ser Met Asp Cys Ile
                245
```


<210> 6392
<211> 472
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (139)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (164)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6392
```
Leu Lys Gly Glu Gln Gly Glu Arg Gly Gln Trp Pro Glu Arg Ala Leu
    1           5               10              15

Gly Thr Gly Gly Thr Leu Phe Phe Leu Pro Arg Gly Pro Trp Ala Asp
            20              25              30

Gly Ile Thr Gln Lys Asn Ala Arg Glu Ala Ala Phe Glu Lys Gly Ser
        35              40              45

His Tyr Pro Arg Ala Gln Thr Glu Arg Met Glu Leu Arg Lys Tyr Gly
        50              55              60

Pro Gly Arg Leu Ala Gly Thr Val Ile Gly Gly Ala Ala Gln Ser Lys
65              70              75              80

Ser Gln Thr Lys Ser Asp Ser Ile Thr Lys Glu Phe Leu Pro Gly Leu
            85              90              95

Tyr Thr Ala Pro Ser Ser Pro Phe Pro Pro Ser Gln Val Ser Asp His
            100             105             110
```

5646

Gln Val Leu Asn Asp Ala Glu Val Ala Ala Leu Leu Glu Asn Phe Ser
        115   120   125

Ser Ser Tyr Asp Tyr Gly Glu Asn Glu Ser Xaa Ser Cys Cys Thr Ser
        130   135   140

Pro Pro Cys Pro Gln Asp Phe Ser Leu Asn Phe Asp Arg Ala Phe Leu
145   150   155   160

Pro Ala Leu Xaa Ser Leu Leu Phe Leu Leu Gly Leu Leu Gly Asn Gly
                165   170   175

Ala Val Ala Ala Val Leu Leu Ser Arg Arg Thr Ala Leu Ser Ser Thr
        180   185   190

Asp Thr Phe Leu Leu His Leu Ala Val Ala Asp Thr Leu Leu Val Leu
        195   200   205

Thr Leu Pro Leu Trp Ala Val Asp Ala Ala Val Gln Trp Val Phe Gly
        210   215   220

Ser Gly Leu Cys Lys Val Ala Gly Ala Leu Phe Asn Ile Asn Phe Tyr
225   230   235   240

Ala Gly Ala Leu Leu Leu Ala Cys Ile Ser Phe Asp Arg Tyr Leu Asn
                245   250   255

Ile Val His Ala Thr Gln Leu Tyr Arg Arg Gly Pro Pro Ala Arg Val
        260   265   270

Thr Leu Thr Cys Leu Ala Val Trp Gly Leu Cys Leu Leu Phe Ala Leu
        275   280   285

Pro Asp Phe Ile Phe Leu Ser Ala His His Asp Glu Arg Leu Asn Ala
    290   295   300

Thr His Cys Gln Tyr Asn Phe Pro Gln Val Gly Arg Thr Ala Leu Arg
305   310   315   320

Val Leu Gln Leu Val Ala Gly Phe Leu Leu Pro Leu Leu Val Met Ala
                325   330   335

Tyr Cys Tyr Ala His Ile Leu Ala Val Leu Leu Val Ser Arg Gly Gln
        340   345   350

Arg Arg Leu Arg Ala Met Arg Leu Val Val Val Val Val Val Ala Phe
        355   360   365

Ala Leu Cys Trp Thr Pro Tyr His Leu Val Val Leu Val Asp Ile Leu
    370   375   380

5647

```
Met Asp Leu Gly Ala Leu Ala Arg Asn Cys Gly Arg Glu Ser Arg Val
385             390             395             400

Asp Val Ala Lys Ser Val Thr Ser Gly Leu Gly Tyr Met His Cys Cys
            405             410             415

Leu Asn Pro Leu Leu Tyr Ala Phe Val Gly Val Lys Phe Arg Glu Arg
            420             425             430

Met Trp Met Leu Leu Leu Arg Leu Gly Cys Pro Asn Gln Arg Gly Leu
        435             440             445

Gln Arg Gln Pro Ser Ser Ser Arg Arg Asp Ser Ser Trp Ser Glu Thr
    450             455             460

Ser Glu Ala Ser Tyr Ser Gly Leu
465             470
```

<210> 6393
<211> 231
<212> PRT
<213> Homo sapiens

<400> 6393

```
Ala Arg Glu Met Ala Ala Gln Gln Arg Asp Cys Gly Gly Ala Ala Gln
  1           5               10              15

Leu Ala Gly Pro Ala Ala Glu Ala Asp Pro Leu Gly Arg Phe Thr Cys
            20              25              30

Pro Val Cys Leu Glu Val Tyr Glu Lys Pro Val Gln Val Pro Cys Gly
            35              40              45

His Val Phe Cys Ser Ala Cys Leu Gln Glu Cys Leu Lys Pro Lys Lys
    50              55              60

Pro Val Cys Gly Val Cys Arg Ser Ala Leu Ala Pro Gly Val Arg Ala
 65              70              75              80

Val Glu Leu Glu Arg Gln Ile Glu Ser Thr Glu Thr Ser Cys His Gly
            85              90              95

Cys Arg Lys Asn Phe Phe Leu Ser Lys Ile Arg Ser His Val Ala Thr
            100             105             110

Cys Ser Lys Tyr Gln Asn Tyr Ile Met Glu Gly Val Lys Ala Thr Ile
            115             120             125

Lys Asp Ala Ser Leu Gln Pro Arg Asn Val Pro Asn Arg Tyr Thr Phe
```

5648

```
        130                      135                      140

Pro Cys Pro Tyr Cys Pro Glu Lys Asn Phe Asp Gln Glu Gly Leu Val
145                      150                  155                 160

Glu His Cys Lys Leu Phe His Ser Thr Asp Thr Lys Ser Val Val Cys
                165                  170                  175

Pro Ile Cys Ala Ser Met Pro Trp Gly Asp Pro Asn Tyr Arg Ser Ala
                180                  185                  190

Asn Phe Arg Glu His Ile Gln Arg Arg His Arg Phe Ser Tyr Asp Thr
            195                  200                  205

Phe Val Asp Tyr Asp Val Asp Glu Glu Asp Met Met Asn Gln Val Leu
            210                  215                  220

Gln Arg Ser Ile Ile Asp Gln
225                  230
```

```
<210> 6394
<211> 625
<212> PRT
<213> Homo sapiens

<400> 6394
Ala Val Arg Leu Pro Ala Ala Tyr Ile Lys Ala Pro Gly His Ala Glu
  1                   5                  10                  15

Pro Ser Ser Arg Thr Arg Pro Thr Thr Met Arg Ser Cys Leu Trp Arg
                20                  25                  30

Cys Arg His Leu Ser Gln Gly Val Gln Trp Ser Leu Leu Leu Ala Val
            35                  40                  45

Leu Val Phe Phe Leu Phe Ala Leu Pro Ser Phe Ile Lys Glu Pro Gln
        50                  55                  60

Thr Lys Pro Ser Arg His Gln Arg Thr Glu Asn Ile Lys Glu Arg Ser
65                  70                  75                  80

Leu Gln Ser Leu Ala Lys Pro Lys Ser Gln Ala Pro Thr Arg Ala Arg
                85                  90                  95

Arg Thr Thr Ile Tyr Ala Glu Pro Val Pro Glu Asn Asn Ala Leu Asn
                100                 105                 110

Thr Gln Thr Gln Pro Lys Ala His Thr Thr Gly Asp Arg Gly Lys Glu
            115                 120                 125
```

5649

```
Ala Asn Gln Ala Pro Pro Glu Glu Gln Asp Lys Val Pro His Thr Ala
    130             135             140
```

```
Gln Arg Ala Ala Trp Lys Ser Pro Glu Lys Glu Lys Thr Met Val Asn
145             150             155             160
```

```
Thr Leu Ser Pro Arg Gly Gln Asp Ala Gly Met Ala Ser Gly Arg Thr
            165             170             175
```

```
Glu Ala Gln Ser Trp Lys Ser Gln Asp Thr Lys Thr Thr Gln Gly Asn
            180             185             190
```

```
Gly Gly Gln Thr Arg Lys Leu Thr Ala Ser Arg Thr Val Ser Glu Lys
        195             200             205
```

```
His Gln Gly Lys Ala Ala Thr Thr Ala Lys Thr Leu Ile Pro Lys Ser
    210             215             220
```

```
Gln His Arg Met Leu Ala Pro Thr Gly Ala Val Ser Thr Arg Thr Arg
225             230             235             240
```

```
Gln Lys Gly Val Thr Thr Ala Val Ile Pro Pro Lys Glu Lys Lys Pro
            245             250             255
```

```
Gln Ala Thr Pro Pro Pro Ala Pro Phe Gln Ser Pro Thr Thr Gln Arg
            260             265             270
```

```
Asn Gln Arg Leu Lys Ala Ala Asn Phe Lys Ser Glu Pro Arg Trp Asp
        275             280             285
```

```
Phe Glu Glu Lys Tyr Ser Phe Glu Ile Gly Gly Leu Gln Thr Thr Cys
    290             295             300
```

```
Pro Asp Ser Val Lys Ile Lys Ala Ser Lys Ser Leu Trp Leu Gln Lys
305             310             315             320
```

```
Leu Phe Leu Pro Asn Leu Thr Leu Phe Leu Asp Ser Arg His Phe Asn
            325             330             335
```

```
Gln Ser Glu Trp Asp Arg Leu Glu His Phe Ala Pro Pro Phe Gly Phe
            340             345             350
```

```
Met Glu Leu Asn Tyr Ser Leu Val Gln Lys Val Val Thr Arg Phe Pro
            355             360             365
```

```
Pro Val Pro Gln Gln Gln Leu Leu Leu Ala Ser Leu Pro Ala Gly Ser
370             375             380
```

```
Leu Arg Cys Ile Thr Cys Ala Val Val Gly Asn Gly Gly Ile Leu Asn
385             390             395             400
```

5650

Asn Ser His Met Gly Gln Glu Ile Asp Ser His Asp Tyr Val Phe Arg
            405   410   415

Leu Ser Gly Ala Leu Ile Lys Gly Tyr Glu Gln Asp Val Gly Thr Arg
            420   425   430

Thr Ser Phe Tyr Gly Phe Thr Ala Phe Ser Leu Thr Gln Ser Leu Leu
            435   440   445

Ile Leu Gly Asn Arg Gly Phe Lys Asn Val Pro Leu Gly Lys Asp Val
        450   455   460

Arg Tyr Leu His Phe Leu Glu Gly Thr Arg Asp Tyr Glu Trp Leu Glu
465   470   475   480

Ala Leu Leu Met Asn Gln Thr Val Met Ser Lys Asn Leu Phe Trp Phe
                485   490   495

Arg His Arg Pro Gln Glu Ala Phe Arg Glu Ala Leu His Met Asp Arg
                500   505   510

Tyr Leu Leu Leu His Pro Asp Phe Leu Arg Tyr Met Lys Asn Arg Phe
            515   520   525

Leu Arg Ser Lys Thr Leu Asp Gly Ala His Trp Arg Ile Tyr Arg Pro
            530   535   540

Thr Thr Gly Ala Leu Leu Leu Leu Thr Ala Leu Gln Leu Cys Asp Gln
545   550   555   560

Val Ser Ala Tyr Gly Phe Ile Thr Glu Gly His Glu Arg Phe Ser Asp
                565   570   575

His Tyr Tyr Asp Thr Ser Trp Lys Arg Leu Ile Phe Tyr Ile Asn His
            580   585   590

Asp Phe Lys Leu Glu Arg Glu Val Trp Lys Arg Leu His Asp Glu Gly
            595   600   605

Ile Ile Arg Leu Tyr Gln Arg Pro Gly Pro Gly Thr Ala Lys Ala Lys
        610   615   620

Asn
625

<210> 6395
<211> 165
<212> PRT

5651

<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6395
Xaa Xaa Gln Xaa Xaa Pro Met Ile Thr Pro Ser Ser Asn Thr Thr His
  1   5   10   15

Tyr Arg Xaa Leu Leu Val Arg Leu Gln Val Pro Val Arg Asn Ser Arg
            20   25   30

Val Asp Pro Arg Val Arg Phe Ser Ser Asp Lys Thr Ala Leu Val Gln
        35   40   45

Tyr Phe Met Leu Ser Glu Gln Ile Val Tyr Leu Cys Leu Ser Ile Cys
    50   55   60

Ser Gln Gly Gly Cys Leu Gln Thr Phe Asp Gln Asp Ile His Leu Ile
65   70   75   80

Tyr Leu Val Phe Phe Phe Tyr Cys Cys Phe Phe Leu Arg Gln Arg Phe
            85   90   95

Ser Leu Ser Pro Arg Leu Glu Cys Cys Gly Val Ile Leu Ala His Cys
            100   105   110

Asn Leu Arg Leu Pro Gly Ser Ser Asn Phe Pro Ala Ser Ala Ser Arg
            115   120   125

5652

```
Val Pro Gly Thr Ile Cys Ala His His His Ala Trp Leu Ile Phe Cys
    130             135             140

Ile Phe Ser Arg Asp Gly Val Ser Pro Cys Trp Leu Gly Trp Ser Arg
145             150             155             160

Thr Pro Asn Leu Lys
                165
```


<210> 6396
<211> 35
<212> PRT
<213> Homo sapiens

<400> 6396
```
Phe Gln Leu Leu Gly Arg Leu Arg Gln Glu Asn Cys Leu Asn Pro Gly
    1           5               10              15

Asp Gly Gly Cys Ser Asp Pro Arg Ser Cys Gln Cys Thr Pro Ala Trp
                20              25              30

Val Thr Glu
        35
```


<210> 6397
<211> 38
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

5653

```
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6397
Ile Pro Gln Met Gln Pro Gly Gly Val Gln Ala Pro Xaa Ile Gln Gln
 1               5                  10                  15

Val Leu Ala Pro Xaa Pro Gly Gly Ile Ser Pro Gln Thr Gly Gly Ile
            20                  25                  30

Ile Gln Xaa Xaa Xaa Ile
        35


<210> 6398
<211> 53
<212> PRT
<213> Homo sapiens

<400> 6398
Asn Ser Ala Glu Leu Trp Ala Glu Glu Tyr Ala His Val Val Leu Arg
 1               5                  10                  15

Lys Ala Asp Ile Asp Leu Thr Lys Arg Ala Gly Glu Leu Thr Glu Asp
            20                  25                  30

Glu Val Glu Arg Val Ile Thr Ile Met Gln Asn Pro Arg His Thr Arg
        35                  40                  45

Ser Gln Thr Gly Ser
    50


<210> 6399
<211> 54
<212> PRT
<213> Homo sapiens

<400> 6399
Gly Val Pro Val Pro Pro Ser Leu Ala Gly Ile Met Gln Arg Thr Phe
 1               5                  10                  15

Ala Trp Leu Leu Asp Arg Val Gln His Leu Gly Ala Pro Val Thr Leu
            20                  25                  30
```

5654

```
Arg Ala Ser Tyr Leu Glu Ile Tyr Asn Glu Gln Val Ser Ala Val Glu
         35                  40                  45

Gly Thr Gln Pro Thr Pro
     50
```

```
<210> 6400
<211> 73
<212> PRT
<213> Homo sapiens

<400> 6400
Gly Lys Ile Asp Pro Asp Gln Thr Val Ile Arg Ala Glu Ser Leu Asp
 1               5                  10                  15

Gly Gly Asp Thr Ser Ser Thr Val Val Glu Ser Gln Glu Gly Leu Ser
             20                  25                  30

Gly Thr His Val Pro Glu Ser Ser Asp Cys Cys Glu Gly Phe Ile Asn
         35                  40                  45

Thr Phe Ser Ser Asn Asp Met Asp Gly Gln Asp Leu Asp Tyr Phe Asn
     50                  55                  60

Ile Asp Glu Arg Ala Lys Met Ala His
 65                  70
```

```
<210> 6401
<211> 101
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids
```

5655

```
<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (54)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (55)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (65)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (78)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (87)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (91)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6401
Glu Ser Xaa Trp Lys Thr Xaa His Tyr Ser Xaa Ser Trp Tyr Xaa Cys
 1               5                  10                  15

Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Ala Pro Gly
            20                  25                  30

Thr Ser Thr Asn Gly Lys Xaa Leu Ala Ala Thr Ala Pro Thr Pro Gly
            35                  40                  45
```

5656

Ile Pro Ile Leu Gln Xaa Xaa Pro Ser Ala Pro Pro Pro Lys Ala Gln
     50   55   60

Xaa Val Ser Pro Val Gln Ala Pro Pro Pro Gly Gly Ser Xaa Gln Leu
 65   70   75   80

Leu Pro Gly Lys Val Leu Xaa Pro Leu Ala Xaa Pro Ser Met Ser Val
                 85   90   95

Arg Gly Gly Gly Ala
              100

<210> 6402
<211> 104
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (55)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (75)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (79)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (86)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (91)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

5657

```
<222> (93)
<223> Xaa equals any of the naturally occurring L-amino acids


<220>
<221> SITE
<222> (96)
<223> Xaa equals any of the naturally occurring L-amino acids


<400> 6402
Gly Asn Tyr Tyr Leu Lys Phe Ser Val Val Ser Asp Lys Asn His Met
 1               5                  10                  15


His Phe Gly Ala Ile Thr Xaa Ala Met Gly Ile Arg Phe Lys Ser Tyr
            20                  25                  30


Cys Ser Asn Leu Val Arg Thr Leu Met Val Asp Pro Ser Gln Glu Val
            35                  40                  45


Gln Glu Asn Tyr Asn Phe Xaa Leu Gln Leu Gln Glu Glu Leu Leu Lys
        50                  55                  60


Glu Leu Arg His Gly Glu Lys Ile Cys Asp Xaa Tyr Asn Ala Xaa Met
65                  70                  75                  80


Asp Val Val Lys Lys Xaa Lys Pro Glu Leu Xaa Asn Xaa Asn Tyr Xaa
                85                  90                  95


Lys Pro Arg Val Arg Asp Gly Asn
            100




<210> 6403
<211> 68
<212> PRT
<213> Homo sapiens


<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids


<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids


<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids
```

5658

```
<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (68)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6403
Pro Gly Xaa Glu Xaa Xaa Pro Thr Val Xaa Gln Val Glu Xaa Ala Ala
  1               5                  10                  15

His Ser Ile Gln Val Glu Lys Ala Ala His Ser Ile Gln Val Glu Glu
            20                  25                  30

Gly Ser Pro Gln Xaa Ser Arg Val Arg Arg Gln Pro Thr Gly Ile Gln
        35                  40                  45

Gly Glu Glu Gly Cys Pro Gln Ala Ser Arg Val Arg Lys Ala Ala His
    50                  55                  60

Arg His Pro Xaa
 65


<210> 6404
<211> 88
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (68)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
```

5659

```
<222> (77)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (85)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (88)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6404
Val Glu Asp Pro Leu Arg Ser Cys Cys Leu Val Ala Ala Asp Ala Gln
 1               5                  10                  15


Glu Pro Glu Gly Ala Gly Ser Asp Ser Gly Asp Ser Pro Ala Ser Ser
              20                  25                  30


Cys Ser Ser Ser Glu Asp Ser Glu Gln Arg Gly Val Gly Ala Gly Gly
          35                  40                  45


Pro Glu Glu Gly Ala Pro Pro Ala Thr Ser Ala Glu Arg Thr Asn Gly
      50                  55                  60


Gly Ala Asp Xaa Ala Trp Ala Phe Leu Thr Phe Thr Xaa Thr Leu Ala
 65               70                  75                  80


Thr Arg Ser Arg Xaa Ser Arg Xaa
                  85



<210> 6405
<211> 75
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (56)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6405
Lys Phe Tyr Met Asn Ser Tyr Phe Phe Leu Asp Asn Met Leu Ile Phe
 1               5                  10                  15


Ile Asp Phe Thr Asn Leu Gln His Met Gly Asp Phe Gly Ser Ile His
              20                  25                  30
```

5660

Arg Pro Gly Ile Val Val Asp Tyr Gln Asn Lys Ser Thr Asn Val Thr
        35   40   45

Val Ala Ala Ala Arg Gly Ile Xaa Arg Lys Met Met Gln Pro Phe Asn
    50   55   60

Lys Pro Ser Gly Thr Phe Ile Lys Asn Pro Asn
65   70   75

<210> 6406
<211> 62
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (53)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6406
Ala Leu Ser Gln Ile Thr Leu Arg Lys Ser Val Glu Ser Ala Leu Arg
  1   5   10   15

Gln Leu Glu Arg Glu Lys Ala Leu Leu Gln His Lys Asn Ala Glu Tyr
            20   25   30

Gln Arg Lys Ala Asp His Glu Ala Asp Xaa Lys Arg Xaa Leu Glu Asn
        35   40   45

Asp Gly Leu Xaa Xaa Arg Ile Leu Asn Thr His Gln Glu Lys
    50   55   60

5661

```
<210> 6407
<211> 48
<212> PRT
<213> Homo sapiens

<400> 6407
Arg Gln Ser Gln Leu Ala Gln Asp Glu Arg Val Ser Arg Ser Tyr Leu
  1               5                  10                  15

Ala Leu Ala Thr Glu Thr Val Asp Met Phe His Ile Leu Pro Gln Ser
             20                  25                  30

Asn Val Ser Pro Arg Ala Arg Phe Cys Ser Met Lys Val Trp Ser Leu
          35                  40                  45
```

```
<210> 6408
<211> 104
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6408
Gly Thr Ser Met Asp Val Ile Ser Ile Asp Lys Thr Gly Glu Asn Phe
  1               5                  10                  15

Arg Leu Ile Tyr Asp Thr Lys Gly Arg Phe Ala Val His Arg Ile Thr
             20                  25                  30

Pro Glu Glu Ala Lys Tyr Lys Leu Cys Lys Val Arg Lys Ile Phe Xaa
          35                  40                  45

Gly Thr Lys Gly Ile Pro His Leu Val Thr His Asp Ala Arg Thr Ile
       50                  55                  60

Arg Tyr Pro Asp Pro Leu Ile Lys Val Asn Asp Thr Ile Gln Ile Asp
 65                  70                  75                  80

Leu Glu Thr Gly Lys Ile Thr Asp Phe Ile Lys Phe Asp Thr Gly Asn
                85                  90                  95

Leu Cys Met Val Thr Trp Arg Cys
            100
```

5662

```
<210> 6409
<211> 49
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6409
Thr Ser Leu Pro Ala Val Phe Pro Gly Gln Val Arg Arg Thr Leu Phe
 1               5                  10                  15

Ile Thr Gly Leu Pro Arg Asp Ala Arg Lys Glu Thr Xaa Glu Ser His
            20                  25                  30

Phe Arg Asp Ala Tyr Pro Thr Cys Lys Val Val Asp Val Gln Leu Xaa
            35                  40                  45

Tyr
```

```
<210> 6410
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (121)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (157)
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5663

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (171)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (176)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (180)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (182)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (191)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6410
Gly Arg Glu Ile Xaa Arg Ser Phe His Leu Val Ile Ser Thr Glu His
  1   5   10   15

Arg Pro Pro Thr Met Glu Phe Gly Pro Ser Trp Val Phe Leu Val Ala
              20   25   30

Ile Leu Lys Gly Val His Cys Glu Val Gln Leu Val Glu Ser Gly Gly
          35   40   45

Gly Leu Val Gln Pro Gly Arg Ser Leu Arg Leu Ser Cys Thr Thr Ser
      50   55   60

Gly Phe Thr Phe Gly Asp Tyr Ser Met Ser Trp Val Arg Gln Ala Pro
 65   70   75   80

Gly Lys Gly Leu Glu Trp Val Gly Phe Ile Arg Ser Lys Ala His Gly
              85   90   95

Gly Thr Thr Glu Tyr Ala Ala Ser Val Lys Arg Gln Ile His His Leu
              100   105   110

Lys Glu Met Ile Pro Gln Ala Ser Xaa Ile Trp Gln Met Asn Ser Leu
          115   120   125

5664

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Lys Pro Arg Thr Gln Thr Leu Leu Leu Ser Arg His Asp Tyr Arg His
    130             135             140

Thr Pro Gly Tyr Trp Gly Gln Gly Thr Leu Val Thr Xaa Phe Ser Gly
145             150             155             160

Phe His Gln Gly Pro Ser Ser Ser Pro Trp Xaa Pro Cys Ser Arg Xaa
            165             170             175

Thr Ser Glu Xaa Gln Xaa Pro Gly Leu Ala Gly Gln Gly Leu Xaa
            180             185             190
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<210> 6411
<211> 54
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6411
Gly Asn Lys Ser Trp Ser Ser Thr Ala Val Ala Xaa Ala Leu Glu Leu
    1           5               10              15

Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Gly Ser Phe Gln Ile
            20              25              30

Lys Asn Trp Leu Pro Phe Phe Val Arg Val Ser Asp Ala Ala Thr His
            35              40              45

Ser Ala Pro Gln Asn Ser
        50
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<210> 6412
<211> 53
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6412
Xaa Xaa Xaa Thr Xaa Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser
 1               5                  10                  15

Thr Cys Gly Ala Xaa Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg
            20                  25                  30

Asn Ser Ala Arg Gly Gly Ala Pro Val Met Leu Ser Thr Leu Gln Met
            35                  40                  45

Cys Cys Leu Ser His
        50
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<210> 6413
<211> 67
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
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5666

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<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids


<400> 6413
Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr Ala Val Xaa Ala
 1               5                  10                  15


Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Xaa Ser Ala Arg Ala
            20                  25                  30


Ala Ala Xaa Gly Pro Leu Gln Pro Cys Arg Ile Lys Thr Arg Arg Arg
        35                  40                  45


Lys Asn His Gln Lys Gln Gly Arg Val Glu Lys Val Gln Lys Lys Asp
     50                  55                  60


Lys Thr Gln
 65




<210> 6414
<211> 50
<212> PRT
<213> Homo sapiens


<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids


<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids


<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids


<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids


<400> 6414
Xaa Xaa Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr Ala Val
 1               5                  10                  15


Xaa Xaa Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala
```

5667

```
                20                  25                  30

Arg Gly Gly Ile Val Cys Leu Leu Leu Met Asn Leu Gln Trp Leu Gln
         35                  40                  45

Asn Asp
    50



<210> 6415
<211> 52
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6415
Xaa Xaa Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr Ala Val
  1               5                  10                  15

Thr Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala
             20                  25                  30

Arg Ala Thr Thr Gly Glu Ser Ile His Gln Val Thr Glu Phe Leu Gln
         35                  40                  45

Arg Gly His Tyr
    50



<210> 6416
<211> 39
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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5668

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<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6416
Xaa Asn Lys Xaa Xaa Xaa Ser Thr Ala Val Xaa Ala Ala Leu Glu Leu
 1               5                   10                  15

Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Ala Val Leu Phe Ser
            20                  25                  30

Ile Met Asn Ser Trp Leu Arg
            35




<210> 6417
<211> 51
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6417
Xaa Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr Ala Val Ala
 1               5                   10                  15

Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg
            20                  25                  30

Gly Arg Leu Met Met Thr Phe Ser Gln Val Leu Gly Lys Lys Leu Lys
            35                  40                  45
```

5669

Leu Leu Leu
      50

<210> 6418
<211> 40
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6418
Ser Thr Leu Ile Lys Gly Thr Lys Ser Trp Xaa Ser Thr Ala Val Ala
  1   5   10   15

Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg
              20   25   30

Asp Asp Ile Glu Thr Ser Val Ile
              35   40

<210> 6419
<211> 41
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6419
Gly Xaa Xaa Asn Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr Ala
  1   5   10   15

Val Ala Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser
              20   25   30

Ala Arg Gly Leu Ile Ser Ser His Leu
              35   40

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<210> 6420
<211> 37
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6420
Xaa Ser Xaa Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr Ala Val
  1               5                  10                  15

Ala Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala
             20                  25                  30

Arg Ala Phe Gly Phe
             35




<210> 6421
<211> 29
<212> PRT
<213> Homo sapiens

<400> 6421
Lys Asn His Lys Pro Ser Val Leu Leu Gly Phe Asp Met Ser Glu Leu
  1               5                  10                  15

Lys Asn Val Lys His Arg Leu Asn Phe Glu Tyr Glu Pro
             20                  25




<210> 6422
<211> 85
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
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5671

<222> (66)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (82)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (83)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6422
Ala Ile Gln Arg Thr Pro Lys Ile Gln Val Tyr Ser Arg His Pro Ala
 1   5   10   15

Glu Asn Gly Lys Ser Asn Phe Leu Asn Cys Tyr Val Ser Gly Phe His
            20   25   30

Pro Ser Asp Ile Glu Val Asp Leu Leu Lys Asn Gly Glu Arg Ile Glu
            35   40   45

Lys Val Glu His Ser Asp Leu Ser Phe Ser Lys Asp Trp Leu Ser Ile
        50   55   60

Ser Xaa Thr Thr Leu Asn Ser Pro Pro Leu Lys Lys Met Ser Met Pro
65   70   75   80

Ala Xaa Xaa Thr Met
                85

<210> 6423
<211> 172
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (103)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (124)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

5672

<222> (153)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (159)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (170)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (172)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6423
Pro Gln Ser Lys Val Leu Tyr Ile Thr Ser Asn Pro Met Ser Leu Cys
 1   5   10   15

Gln Ala Ser Arg His Gln Pro Asn Val Asn Asp Leu Leu Val His Gly
            20   25   30

Met Pro Leu Gln Pro Arg Asn Leu Ser Leu Met Asp Lys Leu Leu Asp
        35   40   45

Leu Asp Asp Lys Leu Leu Met Arg Pro Gly Ser Ser Thr Ile Leu Ser
        50   55   60

Thr Arg Asn Trp Pro Asn Arg Ala Val Glu Phe Ser Thr Ser Ser Leu
 65   70   75   80

Ser Tyr Thr Val Gln Ser Thr Arg Arg Arg Asn Pro Pro Pro Arg Thr
                85   90   95

Leu His Pro Ile Ser Thr Xaa His Ser Cys Ala Glu Thr Pro Gly Ser
            100   105   110

Val Glu Glu Ile Leu Arg Gly Ala Arg Val Pro Xaa Ala Pro Asp Ser
            115   120   125

Leu Ser Phe Ser Leu Thr Asp Ala Pro Glu Leu Lys Leu Ile Cys Tyr
        130   135   140

His Leu Leu Gly Thr Ala Glu Val Xaa Thr Cys Asp His Cys Xaa Gly
145   150   155   160

His Arg Asp Lys Met Asn Pro Gln Trp Xaa Leu Xaa
                165   170

5673

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<210> 6424
<211> 129
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (104)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (105)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (109)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (112)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (124)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (127)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6424
Phe Gly Thr Ser Ile Glu Val Arg Asn Tyr Ser Arg Leu Lys Pro Gly
  1               5                  10                  15

Tyr Arg Trp Glu Arg Gln Leu Val Phe Arg Ser Lys Leu Thr Met His
            20                  25                  30

Thr Ala Phe Asn Arg Lys Asp Asn Ala His Pro Ala Glu Val Thr Ala
            35                  40                  45

Leu Gly Ile Ser Lys Asp His Ser Arg Ile Leu Val Gly Asp Ser Arg
        50                  55                  60
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5674

Gly Arg Val Phe Ser Trp Ser Val Ser Asp Gln Pro Gly Arg Ser Ala
 65   70   75   80

Ala Asp His Trp Val Lys Asp Glu Gly Gly Asp Ser Cys Ser Gly Cys
             85   90   95

Ser Val Arg Phe Ser Leu Thr Xaa Xaa Arg His His Xaa Arg Asn Xaa
             100   105   110

Gly Ser Ala Leu Leu Pro Glu Val His Arg Phe Xaa Ser Glu Xaa Asn
         115   120   125

Val

<210> 6425
<211> 118
<212> PRT
<213> Homo sapiens

<400> 6425
Asp Glu Leu Ser Glu Ala Leu Leu Leu Ile Lys Ala Gln Lys Glu Gln
  1   5   10   15

Lys Asn Gly Asp Leu Ser Phe Leu Val Lys Val Asp Ser Glu Ile Asn
             20   25   30

Lys Asp Leu Glu Arg Ser Met Arg Glu Leu Gln Ala Thr His Ala Glu
         35   40   45

Thr Val Gln Glu Leu Glu Lys Thr Arg Asn Met Leu Ile Met Gln His
     50   55   60

Lys Ile Asn Lys Asp Tyr Gln Met Glu Val Glu Ala Val Thr Arg Lys
 65   70   75   80

Met Glu Asn Leu Gln Gln Asp Tyr Glu Leu Lys Val Glu Gln Tyr Val
             85   90   95

His Leu Leu Asp Ile Arg Ala Ala Arg Ile His Lys Leu Glu Glu Ala
             100   105   110

Val Ser Leu Gly Ser Ile
         115

<210> 6426
<211> 51

5675

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<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (50)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6426
Glu Arg Gly Gly Xaa Val Asn Leu Leu Lys Leu Val Pro Cys Xaa Tyr
  1               5                  10                  15

Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Val Gln Asp Gly Ala
            20                  25                  30

Thr Gly Ala Gly Leu Ser Ala His Gln Ala Arg Pro Ile Leu Arg Pro
            35                  40                  45

Val Xaa Xaa
    50
```

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<210> 6427
<211> 108
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (36)
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5676

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (86)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (97)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (108)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6427
Val Ala Leu Leu Ala Leu Leu Cys Ala Ser Ala Ser Gly Asn Ala Ile
 1   5   10   15

Gln Ala Arg Ser Ser Ser Tyr Ser Gly Glu Tyr Gly Gly Gly Gly Gly
            20   25   30

Lys Xaa Phe Xaa His Ser Gly Asn Gln Leu Asp Gly Pro Ile Thr Ala
        35   40   45

Leu Arg Val Arg Val Asn Thr Tyr Tyr Ile Val Gly Leu Gln Val Arg
        50   55   60

Tyr Gly Lys Val Trp Ser Asp Tyr Val Gly Gly Arg Asn Gly Asp Leu
 65   70   75   80

Glu Glu Ile Phe Leu Xaa Pro Gly Glu Ser Val Ile Gln Val Ser Gly
                85   90   95

Xaa Tyr Lys Trp Tyr Leu Lys Glu Ala Gly Ile Xaa
            100   105

<210> 6428
<211> 89
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

5677

<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (54)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (66)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (69)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (79)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6428
Pro Phe Ser Val Pro Gln Pro Leu Ala Met Pro Phe Arg Pro Gly Leu
  1   5   10   15

Pro Pro Ile Val Glu Ser Met Xaa Val Val Val Glu Thr Ile Leu Ser
             20   25   30

Phe Trp Gln Pro Val Gly Arg Pro Ile Thr Ala Leu Arg Val Arg Xaa
         35   40   45

Asn Thr Tyr Tyr Ile Xaa Gly Leu Gln Val Ala Tyr Gly Gln Gly Xaa
     50   55   60

Glu Xaa Thr Ile Xaa Val Cys Ser Pro Thr Gly Lys Pro Gly Xaa Lys
 65   70   75   80

Ile Phe Ser Cys Pro Pro Trp Gly Asn
             85

5678

```
<210> 6429
<211> 181
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (132)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (164)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (176)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (178)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (181)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6429
Phe Phe Ser Ile Met Phe Thr Pro Leu Asp Arg Tyr Xaa Asp Arg Asn
 1               5                  10                  15

Met Gln Ile Asn Arg His Gln Tyr Cys Ala Leu Lys Ala Met Ser Ala
            20                  25                  30

Val Leu Cys Cys Gly Pro Val Ala Asp Asn Val Gly Leu Ser Ser Asp
            35                  40                  45

Gly Tyr Leu Tyr Lys Trp Leu Asp Asn Ile Leu Asp Ser Leu Asp Lys
        50                  55                  60

Lys Val His Gln Leu Gly Cys Glu Ala Val Thr Leu Leu Leu Glu Leu
    65                  70                  75                  80
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5679

```
Asn Pro Asp Gln Ser Asn Leu Met Tyr Trp Ala Val Asp Arg Cys Tyr
                85                  90                  95

Thr Gly Ser Gly Arg Val Ala Ala Gly Cys Phe Lys Ala Ile Ala Asn
               100             105             110

Val Phe Gln Asn Arg Asp Tyr Gln Cys Asp Thr Val Met Leu Leu Asn
        115             120             125

Leu Ile Leu Xaa Lys Ala Ala Asp Ser Ser Arg Ser Ile Tyr Glu Val
        130             135             140

Ala Met Gln Leu Leu Gln Ile Leu Glu Pro Lys Met Phe Arg Tyr Ala
145             150             155             160

His Lys Leu Xaa Val Gln Arg Thr Glu Trp Arg Thr His Pro Val Xaa
                165             170             175

Pro Xaa His Asn Xaa
            180
```

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<210> 6430
<211> 78
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6430
Gly Arg Val Xaa Gly Arg Val Gly Gly Ala Val Phe Gln Ile Tyr Ile
  1           5               10              15

Ile Lys Asp Leu Glu Lys Leu Leu Met Ile Ala Gly Glu Glu Arg Ala
            20              25              30

Leu Cys Leu Val Asp Val Lys Lys Val Lys Gln Ser Leu Ala Gln Ser
        35              40              45

His Leu Pro Ala Gln Pro Asp Ile Ser Pro Asn Ile Phe Glu Ala Val
    50              55              60

Lys Gly Cys His Leu Phe Gly Ala Gly Gln Glu Leu Arg Thr
65              70              75
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5680

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<210> 6431
<211> 62
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (32)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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5681

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<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (57)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6431
Gly Phe Cys Arg Ser Ser Thr Leu Xaa Gln His Xaa Arg Val His Xaa
 1               5                  10                  15

Gly Glu Arg Pro Tyr Lys Cys Asp Asp Cys Xaa Lys Ala Xaa Ser Xaa
            20              25                  30

Ser Ser Asp Leu Ile Arg His Gln Xaa Thr His Xaa Xaa Asp Xaa Xaa
            35              40                  45

Xaa Pro Gly Ala Pro Ala Trp Val Xaa Gly Val Gly Arg Arg
    50              55                  60



<210> 6432
<211> 72
<212> PRT
<213> Homo sapiens

<400> 6432
Glu Leu Arg Cys Ser Leu Gln Leu Ala Glu Thr Glu Arg Glu Gly Gly
 1               5                  10                  15

Phe Ser Pro His Ile Ser Pro Phe Thr Ala Val Asn Asp Leu Gly His
            20              25                  30

Leu Leu Gly Arg Ala Gly Phe Asn Thr Leu Thr Val Asp Thr Asp Glu
            35              40                  45

Ile Gln Val Asn Tyr Pro Gly Met Phe Glu Leu Met Glu Asp Leu Gln
    50              55                  60
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5682

```
Glu Gln Lys Ser Arg Met Leu Thr
 65                     70


<210> 6433
<211> 151
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (134)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (136)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (143)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (151)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 6433
Xaa Xaa Lys Leu Pro Xaa Glu Gly Pro Leu Gly Arg Leu Xaa Val Pro
 1               5               10              15

Val Arg Asn Ser Arg Val Asp Pro Arg Val Arg Pro Arg Val Arg Pro
             20              25              30

Arg Val Arg Glu Phe Arg Lys Ala Lys Ala Ser Ser Thr Gly Ser Phe
             35              40              45

Thr Ala Pro Asp Pro Gly Leu Lys Arg Lys Ser Pro Pro Glu Ala Leu
     50              55              60

Ser Gly Ser Leu Pro Pro Ala Thr Thr Cys Pro Ala Ser Ser Thr Pro
 65              70              75              80

Ala Pro Thr Ile Ile Pro Ala Pro Ala Ala Pro Gly Lys Pro Ala Ser
                 85              90              95

Ala Ala Thr Val Lys Arg Lys Arg Lys Ser Arg Trp Gly Pro Glu Glu
             100             105             110

Asp Lys Val Glu Leu Pro Pro Ala Glu Leu Val Gln Arg Asp Val Asp
         115             120             125

Ala Ser Pro Ser Pro Xaa Gln Xaa Arg Thr Ser Arg Gly Ser Xaa Met
     130             135             140

Arg Arg Gly Ser Leu Trp Xaa
145             150
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<210> 6434
<211> 104
<212> PRT
<213> Homo sapiens

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5684

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<400> 6434
Asp Xaa Ser Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser
 1   5   10   15

Ala Asp Ala Cys Phe Ala Phe Tyr Ala Tyr His Tyr Arg Phe Asn Gly
            20   25   30

Gln Tyr Ser Ser Leu Ala Leu Val Thr Tyr Trp Leu Phe Ile Gln Val
        35   40   45

Arg Pro Gly Arg Gln Ala Gly Gly Arg Pro Ala Val Pro Phe Gln Ala
    50   55   60

Gly Glu Ala Ala Ala Gly Glu Asp Ala Leu Trp Gly Arg Pro Lys Arg
65   70   75   80

Ala Glu Val Ala Trp Met Val Pro Xaa Gly Leu Xaa Ser Xaa Ser Ser
            85   90   95

Gly Trp Val Val Lys Gly Gly Pro
        100

<210> 6435
<211> 83
<212> PRT
<213> Homo sapiens

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<222> (83)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6435
Gly Thr Ser Ala Cys Gly Ala Gly Gly Ala Pro Arg Gly Ser Ala
 1   5   10   15

Val Phe Arg Ala Ala Gly Leu Asp Gly Ala Leu Gly Lys Ala Leu Lys
            20   25   30

Glu Gln Lys Tyr Asp Arg Gln Leu Arg Leu Trp Gly Asp His Gly Gln
        35   40   45

5685

Glu Ala Leu Glu Ser Ala His Val Cys Leu Ile Asn Ala Thr Ala Thr
        50   55   60

Gly Thr Glu Ile Leu Lys Asn Leu Val Leu Pro Gly Ile Gly Ser Phe
65   70   75   80

Thr Ile Xaa

<210> 6436
<211> 26
<212> PRT
<213> Homo sapiens

<220>
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<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6436
Thr Ser Ser Ala Lys Asp Val Pro Ala Gly Ser Leu Arg Thr Ala Leu
 1   5   10   15

Asn Glu Leu Lys Arg Leu Ile Xaa Ser Ile
            20   25

<210> 6437
<211> 91
<212> PRT
<213> Homo sapiens

<400> 6437
His Gly Ala Gly Asn Glu Ala Glu Thr Pro Pro Ala Pro Lys Leu His
 1   5   10   15

Trp Asp Pro Leu Pro Gly Leu Asp Glu Pro Gly Arg Gly Gln His Ser
            20   25   30

Gly Ser Leu Gly Thr Gly Gln Leu Pro Leu Pro Leu Leu Ser Ala Arg
            35   40   45

Pro Asp Gly Ala Arg Glu Arg Arg Trp Pro Arg Gln Pro Ala Ser Thr
        50   55   60

Ser Glu Pro Gly Ser Pro Ser Pro Arg Thr Cys Ala Pro Phe Thr Arg
65   70   75   80

5686

```
Thr Gln Asn Ile Leu Lys Cys Tyr Cys Ile Pro
                 85              90
```

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<210> 6438
<211> 114
<212> PRT
<213> Homo sapiens

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<400> 6438
Xaa Leu Met Lys Asp Gln Phe Tyr Ala Gln Ser Ser Ala Ser Gln Arg
  1               5              10                  15

Arg Leu Pro Cys Leu Ala Val Gly Gly Ser Gly Tyr Ala Pro Glu Gln
             20              25                  30

Leu Ser Gly Phe Trp Leu Ser Trp Cys Pro Arg Gly Thr Gly Ser Leu
          35              40                  45

Leu Ser Gly Gly Trp Gly Phe Met Pro Arg Asp Asp Arg Leu Gly Cys
       50              55                  60

Gly Val Ala Gly Ala Gln Thr Gln Met Pro Val Ala Gly Gly Pro Gln
  65                  70              75                  80

Ser Gly Leu Gly Leu Pro Ser Gly Pro Phe Pro Gln Leu His Cys Cys
                 85              90                  95

Pro Arg Glu Pro Arg Ser Pro Gly Val Lys Asp Arg Gly Gly Arg Gly
                100             105                 110

Gln Ala
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<210> 6439
<211> 64
<212> PRT
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<400> 6439
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Thr Thr Xaa Xaa Thr Leu Xaa Ala Ser Pro Ser Arg Gly Arg Leu Xaa
  1           5                   10                  15

Gly Val Gln Gly Thr Cys Leu Gly Arg Cys Glu Ser Pro Leu Pro Ser
            20                  25                  30

His Pro Cys Pro Asn Arg Trp Ser Cys Cys Leu Glu Ser Glu Glu Leu
            35                  40                  45

Trp Cys Pro Cys Phe Gly Pro Gly Pro Ala Pro Ala Ser Asp Arg Pro
    50                  55                  60
```

<210> 6440
<211> 81
<212> PRT
<213> Homo sapiens

<400> 6440
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Gly Leu Gly Leu Lys His Leu Trp Lys Pro Ala Val Glu Ala Tyr Gly
  1           5                   10                  15

Glu Phe Leu Cys Met Phe Glu Glu Asn Tyr Pro Glu Thr Leu Lys Arg
            20                  25                  30

Leu Phe Val Val Lys Ala Pro Lys Leu Phe Pro Val Ala Tyr Asn Leu
            35                  40                  45

Ile Lys Pro Phe Leu Ser Glu Asp Thr Arg Lys Lys Ile Met Val Leu
    50                  55                  60
```

5688

Gly Gly Gly Ser Leu Cys Gln Met Glu Arg Met Leu Val Leu Gly Phe
 65   70   75   80

Ser

<210> 6441
<211> 117
<212> PRT
<213> Homo sapiens

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<220>
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<400> 6441
Ala Thr Leu Asp Arg Lys Val Pro Ser Pro Glu Ala Phe Leu Gly Lys
  1   5   10   15

Pro Xaa Ser Ser Trp Xaa Asp Xaa Ala Lys Leu His Cys Ser Asp Asn
             20   25   30

Val Asp Leu Glu Glu Ala Gly Lys Glu Gly Gly Lys Ser Arg Glu Val
         35   40   45

Met Arg Leu Asn Lys Glu Asp Met His Leu Phe Gly His Tyr Pro Ala
     50   55   60

His Asp Asp Phe Tyr Leu Val Val Cys Ser Ala Cys Asn Gln Val Val
 65   70   75   80

Lys Pro Gln Val Phe Gln Ser His Cys Ala Gly Pro Ala Thr Val Pro
                 85   90   95

Pro Ser Gly Ser Ser Phe Ser Phe Ser Asp Ser Trp Ala Arg Cys Val
                100   105   110

His Leu Ala Pro Cys
            115

<210> 6442
<211> 70
<212> PRT
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5690

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<400> 6442
Val Lys Ser Gly Xaa Tyr Val Val Ile Glu Val Lys Val Ala Xaa Xaa
 1               5               10              15

Tyr Gly Ile Xaa Ile Thr Cys Xaa Xaa Tyr Leu Met Thr Xaa Tyr Gln
            20              25              30

Xaa Ala Pro Pro Ser Pro Gln Tyr Arg Xaa Ile Ile Cys Met Gly Ala
        35              40              45

Xaa Xaa Asn Gly Leu Pro Leu Xaa Tyr Gln Xaa Xaa Leu Xaa Ala Leu
    50              55              60
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5691


```
Xaa Pro Asn Asp Tyr Thr
 65                    70



<210> 6443
<211> 80
<212> PRT
<213> Homo sapiens

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<400> 6443
Leu Phe Lys Met Gln Ile Val Ala Cys Gly Glu Gly Pro Gly Leu Ser
  1   5   10   15

Arg Glu Arg Xaa Gly Xaa Xaa Phe Ser Gln Pro Gly Arg Ser Xaa Xaa
            20   25   30

Gly Ala Phe Xaa Met Cys Lys Gly Gly Val Gln Ala Pro Gly Gly Val
        35   40   45

Leu Ala Val Ser Phe Phe Leu Xaa Gly Asp Gly Xaa Gly Val Arg Xaa
    50   55   60

Gly Ala Asp Ala Leu Ala Cys Glu Xaa Glu Leu Glu Lys Cys Arg Cys
65   70   75   80

<210> 6444
<211> 129
<212> PRT
<213> Homo sapiens

<400> 6444
Lys Glu Leu Glu Leu Tyr Lys Glu Glu Leu Gln Thr Lys Pro Ala Leu
  1   5   10   15

Leu Ala Val Asn Lys Met Asp Leu Pro Asp Ala Gln Asp Lys Phe His
            20   25   30

Glu Leu Met Ser Gln Leu Gln Asn Pro Lys Asp Phe Leu His Leu Phe
        35   40   45

Glu Lys Asn Met Ile Pro Glu Arg Thr Val Glu Phe Gln His Ile Ile
    50   55   60

Pro Ile Ser Ala Val Thr Gly Glu Gly Ile Glu Glu Leu Lys Asn Cys
65   70   75   80

5693

```
Ile Arg Lys Ser Leu Asp Glu Gln Ala Asn Gln Glu Asn Asp Ala Leu
              85                      90                  95

His Lys Lys Gln Leu Leu Asn Leu Trp Ile Ser Asp Thr Met Ser Ser
              100                     105             110

Thr Glu Pro Pro Ser Lys His Ala Val Thr Thr Ser Lys Met Asp Ile
          115                 120                 125

Ile
```

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<210> 6445
<211> 135
<212> PRT
<213> Homo sapiens

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5694

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<400> 6445
Leu Arg Gln Ala Leu Ile Arg Leu Thr Ile Xaa Xaa Xaa Trp Tyr Ala
 1               5                  10                  15

Cys Arg Tyr Arg Ala Gly Ile Xaa Gly Ser Thr His Ala Ser Ala Gly
            20                  25                  30

Glu Arg Pro Phe Glu Cys Ile Glu Cys Gly Lys Ala Phe Ser Asn Gly
            35                  40                  45

Ser Xaa Leu Ala Gln His Gln Arg Ile His Thr Gly Glu Lys Pro Xaa
        50                  55                  60
```

5695

```
Val Xaa Asn Val Xaa Xaa Lys Ala Phe Ser His Arg Gly Tyr Leu Ile
 65              70               75               80

Val His Gln Arg Ile His Thr Gly Glu Arg Pro Tyr Glu Cys Lys Glu
             85               90               95

Cys Xaa Lys Ala Phe Xaa Gln Tyr Ala His Leu Ala Gln His Gln Arg
         100             105             110

Val His Thr Gly Glu Xaa Pro Tyr Glu Cys Lys Val Leu Xaa Glu Ser
         115             120             125

Leu Gln Xaa Asn Cys Ile Pro
     130             135
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<210> 6446
<211> 138
<212> PRT
<213> Homo sapiens

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5697

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<400> 6446
Lys Trp Leu Pro Pro Lys Phe Pro Xaa Lys Arg Xaa Gly Xaa Leu Ile
 1               5                  10                  15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Ile Xaa Xaa Pro Xaa Xaa Xaa Xaa Tyr
            20                  25                  30

Gly Xaa Ala Trp Xaa Xaa Pro Xaa Trp Asn Xaa Pro Xaa Phe Cys Pro
        35                  40                  45

Xaa Ile Asn Val Leu Leu Ala Xaa Asn Leu Ser Pro Arg Pro Leu Pro
    50                  55                  60

Arg Lys Val Pro Pro Xaa Xaa Val Gly Gly Asn Leu Val Ala Ile Leu
65                  70                  75                  80

Thr Ala Ala Asn Leu Lys Ser Val Asn Leu Val Ala Asn Phe Asn Thr
            85                  90                  95

Leu Phe Val Leu Val Gln Ile Ser Ile Met Val Val Phe Ile Phe Leu
            100                 105                 110

Val Val Gln Gly Leu His Lys Xaa Xaa Xaa Leu Ala Pro Ser Gly Xaa
        115                 120                 125

Phe Ser Arg Leu Ser Ala Arg Thr Arg Thr
        130                 135
```

```
<210> 6447
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5699

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<211> 197
<212> PRT
<213> Homo sapiens

<220>
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<220>
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<220>
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<400> 6447
Ala Asp Ala Trp Val Leu Val Val Phe Lys Ala Pro Arg Ala Asp Ser
 1               5                   10                  15

His Gly Pro Gly Cys Arg Pro Pro Leu Cys Pro Gly Leu Val Ala Tyr
            20                  25                  30
```

5700

```
Val Asp Leu Asp Glu Arg Ala Ile Asp Ala Leu Arg Glu Phe Asn Glu
        35              40              45

Glu Gly Ala Leu Ser Val Leu Gln Gln Phe Lys Glu Ser Asp Leu Ser
        50              55              60

His Val Gln Asn Lys Ser Ala Phe Leu Cys Gly Val Met Lys Thr Tyr
65              70              75              80

Arg Gln Arg Glu Lys Gln Gly Ser Lys Val Gln Glu Ser Thr Lys Gly
                85              90              95

Pro Asp Glu Ala Lys Ile Lys Ala Leu Leu Glu Arg Thr Gly Tyr Thr
                100             105             110

Leu Asp Val Thr Thr Gly Gln Arg Lys Tyr Gly Gly Pro Ser Pro Asp
        115             120             125

Ser Val Tyr Ser Gly Val Gln Pro Gly Ile Gly Thr Xaa Val Phe Val
        130             135             140

Gly Lys Ile Pro Arg Asp Leu Tyr Glu Asp Glu Leu Val Pro Leu Phe
145             150             155             160

Glu Xaa Ala Xaa Pro Ile Trp Asp Leu Arg Leu Met Met Asp Pro Leu
                165             170             175

Ser Gly Arg Ile Xaa Gly Met His Leu Ser Pro Ser Xaa Xaa Lys Glu
        180             185             190

Xaa Xaa Arg Lys Pro
        195
```

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<210> 6448
<211> 65
<212> PRT
<213> Homo sapiens

<400> 6448
Tyr Thr Leu Leu Glu Leu Glu Leu Pro Arg Leu Leu Ala Pro Asp Leu
1               5               10              15

Pro Ser Asn Gly Ser Ser Leu Lys Asp Leu Lys Trp Thr His Ser Asn
                20              25              30

Tyr Arg Ala Ser Lys Glu Ser Cys Ile Val Ile Phe Arg His Tyr Leu
        35              40              45

Pro Gly Ser Gly Val Gly Asn Leu Arg Ala Cys Cys Leu Pro Trp Met
```

5701

```
          50                      55                      60

Trp
 65



<210> 6449
<211> 60
<212> PRT
<213> Homo sapiens

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<222> (51)
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<400> 6449
Ile Trp His Glu Ala Thr Pro Thr Gly Gly Gly Xaa Met Ala Arg Thr
  1               5                  10                  15

Trp Lys Pro Thr Leu Val Ile Leu Xaa Ile Lys Arg Ala Gly Arg Cys
             20                  25                  30

Xaa Arg Trp Xaa Pro Asn Glu Asn Lys Val Ala Val Gly Asn Gly Ser
         35                  40                  45
```

5702

```
Xaa Glu Xaa Ser Ile Trp Tyr Phe Gln Gln Gly Glu
        50                  55                  60
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<210> 6450
<211> 82
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
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<400> 6450
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Asp Phe Xaa Gln Met Leu Gln Glu Ile Gln Glu Val Lys Thr Pro Glu
 1           5                  10                  15

Glu Leu Glu Thr Phe Met Leu Lys His Gly Glu Asn Ile Ile Asp Thr
            20                  25                  30

Leu Gly Ala Glu Val Asp Arg Leu Glu Lys Glu Leu Lys Val Arg Cys
        35                  40                  45

Ile His Lys Asn Asn Ile Met Ile Met Ala Ala Ile Phe Leu Ser Thr
    50                  55                  60

Tyr Ser Thr Ala Asp Thr Lys Cys Ile His His Met His Ala Leu Thr
 65                  70                  75                  80

His Ser
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<210> 6451
<211> 164
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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5703

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (110)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (123)
<223> Xaa equals any of the naturally occurring L-amino acids
```

5704

<400> 6451
Xaa His His Leu Tyr Arg Ala Tyr Ser Phe Xaa Met Gly Cys Trp Pro
1   5   10   15

Lys Asn Gly Leu Leu Xaa Met Asn Lys Gly Leu Ser Leu Gln His Ile
            20   25   30

Gly Arg Pro His Thr Gly Ile Asp Asp Cys Lys Lys His Cys Xaa His
            35   40   45

His Glu Xaa Thr Arg Leu Ser Arg Leu His Leu Gln Ala Asp Ile Xaa
        50   55   60

Xaa Val Leu Ile Gly Pro Arg Gln Asp Gly Ala Arg Gln Gly Xaa Cys
65   70   75   80

Leu Ala His Pro Lys Ser Ser Ser Pro Ser Pro Xaa Gly Lys Lys Glu
                85   90   95

Asn Gly Ile Leu Cys Val Gln Asn Val Pro Xaa Ala Cys Xaa Leu Cys
            100   105   110

Pro Trp Arg Trp Leu Phe Pro Cys Lys Gly Xaa Ala Leu Gly Pro Ser
        115   120   125

Gly Thr Lys Leu Phe Ser Pro His Pro Thr Leu Ile Ser Pro Ser Ile
    130   135   140

Thr Pro Pro Leu Arg Ala Gly Leu Gly Glu Pro Gly Ser Pro Leu Ser
145   150   155   160

Leu Phe Thr Gly

<210> 6452
<211> 107
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (66)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6452
Val Val Ser Lys Val Cys Val Trp Pro Gly Val His Pro Leu Pro Ser
1   5   10   15

Ser Pro Ala Pro Glu His Ser Cys Ser Ala Arg Pro His Ser Ser Ala

5705

```
               20                    25                    30
Leu Leu Pro Ile Pro Thr Arg Arg Arg Cys Pro Gly Pro Val Cys Ala
         35                40                45

Ala His Val Asp Trp Glu Gly Arg Ala Gly Ala Gly Leu Gly Ala Arg
         50                55                60

Ala Xaa Ala Val Phe Ser Phe Leu His Ser Arg Arg Ala Gly Gly Trp
 65                70                75                        80

Gly Cys Phe Pro Ala Arg Pro Gln Gly Gln Ala Pro Trp Gly Phe Ile
                 85                90                    95

Arg Gly Leu Glu Gly Trp Gly Gln Lys Gln Ala
                100               105
```

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<210> 6453
<211> 114
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (87)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (96)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (99)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (100)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (103)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
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5706

<222> (108)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (110)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6453
Glu Gly Lys Gly Leu Glu Gly Pro Leu Asp Leu Ile Asn Tyr Ile Asp
 1   5   10   15

Val Ala Gln Gln Asp Gly Lys Leu Pro Phe Val Pro Pro Glu Glu Glu
            20   25   30

Phe Ile Met Gly Val Ser Lys Tyr Gly Ile Lys Val Ser Thr Ser Asp
          35   40   45

Gln Tyr Asp Val Leu His Arg His Ala Leu Tyr Leu Ile Ile Arg Met
        50   · 55   60

Val Cys Tyr Asp Asp Gly Leu Gly Ala Gly Lys Ser Leu Leu Ala Leu
 65   70   75   80

Lys Thr Thr Asp Ala Ser Xaa Glu Glu Tyr Arg Leu Trp Val Tyr Xaa
                85   90   95

Val Gln Xaa Xaa Gly Thr Xaa Thr Ser His Leu Xaa Gly Xaa Ile His
            100   105   110

Arg Phe

<210> 6454
<211> 95
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (75)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (80)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

5707

<221> SITE.
<222> (81)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (82)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6454
Leu Leu Gly Pro Gly Lys Pro Trp Ser Pro Ser Pro Gln Pro Pro Pro
  1   5   10   15

Arg Ala His Arg Ser Ser Pro Trp Ala Pro Ser Ser Lys Ser Thr Ser
               20   25   30

Gly Gly Thr Arg Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu
            35   40   45

Pro Val Arg Phe Leu Gly Asn Ser Gly Ala Leu Thr Ser Gly Val Ser
     50   55   60

His Leu Pro Gly Cys Ser Tyr Ser Pro Gln Xaa Ser Thr Pro Ser Xaa
 65   70   75   80

Xaa Xaa Leu Thr Val Pro Ser Gln Lys Leu Gly Asp Gln Lys Leu
                85   90   95

<210> 6455
<211> 108
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (92)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6455
Ala Pro Phe Arg Gly Pro Lys Asp Arg Ala Arg Lys Leu Ala Glu Val
  1   5   10   15

Gly Ser His Glu Lys Val Gly Gln Xaa Pro Cys Cys Val Arg Leu Glu
               20   25   30

5708

```
Gln Ala Trp Glu Glu Gly Gly Ile Leu Tyr Leu Gln Thr Glu Leu Cys
          35                  40                  45

Gly Pro Ser Leu Gln Gln His Cys Glu Ala Trp Gly Ala Ser Leu Pro
          50                  55                  60

Glu Ala Gln Val Trp Gly Tyr Leu Arg Asp Thr Leu Leu Ala Leu Ala
 65                  70                  75                  80

His Leu His Ser Gln Gly Leu Val His Leu Asp Xaa Gln Ala Cys Gln
                85                  90                  95

His Leu Pro Gly Ala Pro Gly Pro Leu Gln Ala Gly
              100                 105  .
```

<210> 6456
<211> 21
<212> PRT
<213> Homo sapiens

<400> 6456
```
Gly Gly Leu Asn Gln Thr Gln Leu Arg Lys Ile Leu Ala Tyr Ser Ser
 1                   5                  10                  15

Ile Thr His Ile Gly
              20
```

<210> 6457
<211> 128
<212> PRT
<213> Homo sapiens

<400> 6457
```
Arg Arg Ala Met Ala Asp Glu Glu Leu Glu Ala Leu Arg Arg Gln Arg
 1                   5                  10                  15

Leu Ala Glu Leu Gln Ala Lys His Gly Asp Pro Gly Asp Ala Ala Gln
              20                  25                  30

Gln Glu Ala Lys His Arg Glu Ala Glu Met Arg Asn Ser Ile Leu Ala
          35                  40                  45

Gln Val Leu Asp Gln Ser Ala Arg Ala Arg Leu Ser Asn Leu Ala Leu
          50                  55                  60

Val Lys Pro Glu Lys Thr Lys Ala Val Glu Asn Tyr Leu Ile Gln Met
```

5709

```
 65                      70                      75                      80

Ala Arg Tyr Gly Gln Leu Ser Glu Lys Val Ser Glu Gln Gly Leu Ile
                85                      90                      95

Glu Ile Leu Lys Lys Val Ser Gln Gln Thr Glu Lys Thr Thr Thr Val
            100                     105                     110

Lys Val Ser Val Pro Arg Cys Leu Trp Gln Met Lys Arg Trp Ile Leu
            115                     120                     125
```

<210> 6458
<211> 163
<212> PRT
<213> Homo sapiens

<400> 6458

```
Glu Val Thr Thr Phe Gln Leu Ala Val Leu Phe Ala Trp Asn Gln Arg
  1               5                      10                      15

Pro Arg Glu Lys Ile Ser Phe Glu Asn Leu Lys Leu Ala Thr Glu Leu
                20                      25                      30

Pro Asp Ala Glu Leu Arg Arg Thr Leu Trp Ser Leu Val Ala Phe Pro
            35                      40                      45

Lys Leu Lys Arg Gln Val Leu Leu Tyr Glu Pro Gln Val Asn Ser Pro
        50                      55                      60

Lys Asp Phe Thr Glu Gly Thr Leu Phe Ser Val Asn Gln Glu Phe Ser
 65                      70                      75                      80

Leu Ile Lys Asn Ala Lys Val Gln Lys Arg Gly Lys Ile Asn Leu Ile
                85                      90                      95

Gly Arg Leu Gln Leu Thr Thr Glu Arg Met Arg Glu Glu Glu Asn Glu
            100                     105                     110

Gly Ile Val Gln Leu Arg Ile Leu Arg Thr Gln Glu Ala Ile Ile Gln
            115                     120                     125

Ile Met Lys Met Arg Lys Lys Ile Ser Asn Ala Gln Leu Gln Thr Glu
            130                     135                     140

Leu Val Glu Ile Leu Lys Asn Met Phe Leu Pro Gln Lys Glu Met Ile
145                     150                     155                     160
```

5710

Lys Val Gln

<210> 6459
<211> 175
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (148)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (167)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (169)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6459
Asp Asp Arg Leu Arg Glu Glu Arg Ala His Ala Leu Lys Thr Lys Glu
  1   5   10   15

Lys Leu Ala Gln Thr Ala Thr Ala Ser Ser Ala Ala Val Gly Ser Gly
            20   25   30

Pro Pro Pro Glu Ala Glu Gln Ala Trp Pro Gln Ser Ser Gly Glu Glu
            35   40   45

Glu Leu Gln Leu Gln Leu Ala Leu Ala Met Ser Lys Glu Glu Ala Asp
      50   55   60

Gln Pro Pro Ser Cys Gly Pro Glu Asp Asp Ala Gln Leu Gln Leu Ala
 65   70   75   80

Leu Ser Leu Ser Arg Glu Glu His Asp Lys Glu Glu Arg Ile Arg Arg
                85   90   95

Gly Asp Asp Leu Arg Leu Gln Met Ala Ile Glu Glu Ser Lys Arg Glu
            100   105   110

Thr Gly Gly Lys Glu Glu Ser Ser Leu Met Asp Leu Ala Asp Val Phe
            115   120   125

```
Thr Gly Pro Ala Ser Ala Arg Pro Gln Thr Pro Gly Gly Ala His Thr
    130             135         140

His Gly Leu Xaa Pro Ser His Gly Leu Pro Asn Leu Asp Pro Trp Gly
145             150             155             160

Gly Pro Pro Val Pro Ser Xaa Ala Xaa Ser Pro Gly Glu Gly Ser
            165             170             175
```

```
<210> 6460
<211> 71
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6460
Ala Xaa Ala Ser Asp Leu Asn Asp Ile Tyr Glu Glu Glu Pro Phe Asn
  1             5               10              15

Phe Gln Met Val Tyr Asn Glu Phe Gln Lys Phe Val Gln Arg Lys Ala
            20              25              30

His Ser Val Tyr Asn Phe Glu Lys Pro Val Val Met Lys Ala Phe Glu
            35              40              45

His Leu Gln Gln Leu Glu Leu Ile Lys Pro Met Glu Arg Thr Ser Gly
    50              55              60

Asn Ser Gln Arg Glu Ser Ser
65                  70
```

```
<210> 6461
<211> 76
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (65)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
```

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<222> (66)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (74)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6461
Leu Val Pro Asn Ser Ala Arg Val Trp Thr Asn Pro Gln Ile Lys Leu
  1               5                  10                  15

Ser Leu Thr Glu Lys Asp Glu Gly Gln Glu Glu Cys Ser Phe Leu Val
             20                  25                  30

Ala Leu Met Gln Lys Asp Arg Arg Lys Leu Lys Arg Phe Gly Ala Asn
         35                  40                  45

Val Leu Thr Ile Gly Tyr Ala Ile Tyr Asn Cys Pro Asn Lys Asn Lys
         50                  55                  60

Xaa Xaa Asn Lys Asn Pro Pro Asn Pro Xaa Ser Leu
 65                  70                  75


<210> 6462
<211> 127
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (108)
<223> Xaa equals any of the naturally occurring L-amino acids
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5713

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<220>
<221> SITE
<222> (115)
<223> Xaa equals any of the naturally occurring L-amino acids


<400> 6462
Xaa Thr Thr Xaa Xaa Gly Lys Ala Gly Thr Pro Ala Gly Thr Gly Pro
 1               5                  10                  15


Glu Phe Pro Gly Arg Pro Thr Arg Pro Lys Ala Leu Lys Arg Gly Ser
            20              25                  30


Leu Leu Gly Cys Phe Ile Asp Thr Arg Ser Ala Ala Glu Ser Glu Ala
        35              40                  45


Arg Thr Pro Phe Gly Leu Ile Lys Gly His Ala Tyr Ser Val Thr Gly
    50              55                  60


Ile Asp Gln Val Ser Phe Arg Gly Gln Arg Ile Glu Leu Ile Arg Ile
 65              70                  75                  80


Arg Asn Pro Trp Gly Gln Val Glu Trp Asn Gly Ser Trp Ser Asp Ser
            85                  90                  95


Ser Pro Glu Trp Arg Ser Val Val Gln Leu Ser Xaa Ser Val Cys Val
            100             105                 110


Thr Leu Xaa Trp Met Met Gly Asn Ser Gly Trp His Leu Arg Thr
        115             120                 125
```

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<210> 6463
<211> 152
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (134)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (146)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6463
Val Leu Thr Leu Gln Gly Asp Ala Leu Ser Gln Ala Asp Val Asn Leu
 1               5                  10                  15
```

5714

```
Lys Met Pro Arg Asn Asn Gln Leu Leu His Phe Ala Phe Arg Glu Asp
            20              25              30

Lys Gln Trp Lys Leu Gln Gln Ile Gln Asp Ala Arg Asn His Val Ser
        35              40              45

Gln Ala Ile Tyr Leu Leu Thr Ser Arg Asp Gln Ser Tyr Gln Phe Lys
    50              55              60

Thr Gly Ala Glu Val Leu Lys Leu Met Asp Ala Val Met Leu Gln Leu
65              70              75              80

Thr Arg Ala Arg Asn Arg Leu Thr Thr Pro Ala Thr Leu Thr Leu Pro
            85              90              95

Glu Ile Ala Ala Ser Gly Leu Thr Arg Met Phe Ala Pro Ala Leu Pro
            100             105             110

Ser Asp Leu Leu Val Asn Val Tyr Ile Asn Leu Asn Lys Leu Cys Leu
        115             120             125

Thr Val Tyr Gln Leu Xaa Ala Leu Gln Pro Asn Phe Thr Lys Asn Phe
    130             135             140

Ala Xaa Trp Gly Arg Gly Ala Ala
145             150
```

```
<210> 6464
<211> 59
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
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5715

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<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6464
Ser Arg Arg Xaa Met Ala Val Leu Ser Xaa Glu Tyr Gly Phe Val Leu
 1               5                  10                  15

Leu Thr Gly Ala Ala Ser Phe Xaa Met Val Xaa Xaa Leu Ala Xaa Asn
            20                  25                  30

Val Ser Lys Ala Arg Lys Lys Tyr Lys Xaa Glu Trp Thr Leu Pro Leu
        35                  40                  45

Xaa Phe Ser His Thr Gln Phe Leu Phe Phe Tyr
    50                  55




<210> 6465
<211> 99
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (15)
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5716

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (54)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (66)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (74)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (75)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (77)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (90)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (93)
<223> Xaa equals any of the naturally occurring L-amino acids
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5717

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<220>
<221> SITE
<222> (96)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (98)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6465
Ala His Ala Ser Xaa Leu Pro Ser Leu Arg Pro Glu Ala Ala Xaa Gln
 1               5                10                15


Leu Leu Arg Ser Xaa Pro Lys Val Cys Val Thr Val Leu Pro Pro Asp
            20              25              30


Glu Ser Gly Arg Pro Arg Arg Ser Phe Ser Glu Leu Tyr Thr Leu Ser
            35              40              45


Leu Gln Xaa Pro Ser Xaa Arg Gly Ala Pro Asp Xaa Val Gln Asp Glu
    50              55              60


Val Xaa Gly Val Thr Leu Leu Ser Thr Xaa Xaa Gln Xaa Leu His Leu
65              70              75                      80


Cys Leu Gln Asp Gly Gly Lys Ser Ser Xaa Ala Trp Xaa Ser Gly Xaa
            85              90              95


Gly Xaa Asp




<210> 6466
<211> 44
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6466
Pro Thr Arg Xaa Glu Pro Gln Lys Val Ser Thr Leu Gly Lys Ser Asn
 1               5                10                15


Val Ile Val Thr Gly Ala Asn Phe Thr Arg Ala Ser Asn Ile Thr Met
            20              25              30
```

5718

Ile Leu Lys Gly Thr Ser Thr Cys Asp Lys Asp Val
              35   40

<210> 6467
<211> 177
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (72)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (89)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (115)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (125)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (144)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (153)
<223> Xaa equals any of the naturally occurring L-amino acids

5719

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<220>
<221> SITE
<222> (154)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (157)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (167)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (168)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6467
Gly Xaa Thr Thr Xaa His Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr
  1               5                  10                  15

Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Ala Asp Ala Trp Val
            20              25                  30

Gly Met Gln Leu Asp Arg Ala Ser Ser Ser Leu Tyr Val Ala Phe Ser
            35              40                  45

Thr Cys Val Ile Lys Val Pro Leu Gly Arg Cys Glu Arg His Gly Lys
    50              55                  60

Cys Lys Lys Thr Cys Ile Ala Xaa Arg Asp Pro Tyr Cys Gly Trp Ile
65              70                  75                      80

Lys Glu Gly Gly Ala Cys Ser His Xaa Ser Pro Asn Ser Arg Leu Thr
            85                  90                  95

Phe Glu Gln Asp Ile Glu His Gly Asn Thr Asp Gly Leu Gly Asp Cys
            100                 105                 110

His Asn Xaa Phe Val Ala Leu Asn Gly His Ser Ser Xaa Leu Leu Pro
            115                 120                 125

Ser Thr Thr Thr Ser Asp Ser Thr Ala Gln Glu Gly Tyr Glu Thr Xaa
    130                 135                 140

Gly Gly Met Leu Asp Trp Lys His Xaa Xaa Asp Ser Xaa Asp Ser Thr
145                 150                 155                 160
```

5720

Asp Pro Leu Gly Ala Arg Xaa Xaa His Asn His Gln Arg Gln Glu Gly
                    165   170   175

Ser

<210> 6468
<211> 99
<212> PRT
<213> Homo sapiens

<400> 6468
Met Gly Ala Val Gln Gln Phe Asn Leu Asp Val Ile Gln Cys Glu Leu
  1   5   10   15

Phe Ala Ser Ser Glu Pro Val Pro Gly Phe Gln Gly Asp Thr Leu Gln
              20   25   30

Leu Ala Phe Ile Asp Leu Arg Gln Leu Leu Asp Leu Phe Met Val Trp
          35   40   45

Asp Trp Ser Thr Tyr Leu Ala Asp Tyr Gly Gln Pro Ala Ser Lys Tyr
      50   55   60

Leu Arg Val Asn Pro Asn Thr Ala Leu Thr Leu Leu Glu Lys Met Lys
  65   70   75   80

Asp Thr Ser Lys Lys Asn Asn Ile Phe Ala Gln Phe Arg Lys Asn Asp
              85   90   95

Arg Asp Lys

<210> 6469
<211> 30
<212> PRT
<213> Homo sapiens

<400> 6469
Ile Gln Val Ser Val Leu Thr Asp Gln Val Glu Ala Gln Gly Glu Lys
  1   5   10   15

Ile Arg Asp Leu Glu Phe Cys Leu Lys Ser Thr Glu Arg Ser
              20   25   30

5721

```
<210> 6470
<211> 116
<212> PRT
<213> Homo sapiens

<400> 6470
Lys Leu Pro Leu Lys Ala Lys Met Gly Lys Glu Lys Thr His Ile Asn
  1               5                  10                  15

Ile Val Val Ile Gly His Val Asp Ser Gly Lys Ser Thr Thr Thr Gly
             20                  25                  30

His Leu Ile Tyr Lys Cys Gly Gly Ile Asp Lys Arg Thr Ile Glu Lys
         35                  40                  45

Phe Glu Lys Glu Ala Ala Glu Met Gly Lys Gly Ser Phe Lys Tyr Ala
     50                  55                  60

Trp Val Leu Asp Lys Leu Lys Ala Glu Arg Glu Arg Gly Ile Thr Ile
 65                  70                  75                  80

Asp Ile Ser Leu Trp Lys Phe Glu Thr Ser Lys Tyr Tyr Val Thr Ile
             85                  90                  95

Ile Asp Ala Pro Gly His Arg Asp Phe Ile Lys Asn Met Ile Thr Gly
             100                 105                 110

Thr Ser Gln Ala
         115
```

```
<210> 6471
<211> 37
<212> PRT
<213> Homo sapiens

<400> 6471
Glu Lys Pro Tyr Gly Ile Val Glu Lys Lys Ser Arg Ile Phe Pro Gly
  1               5                  10                  15

Asp Thr Ile Leu Glu Thr Gly Glu Val Ile Pro Pro Met Lys Glu Phe
             20                  25                  30

Pro Asp Gln His His
         35
```

```
<210> 6472
<211> 89
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5722

```
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (63)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (70)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (74)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (79)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (81)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6472
Ala Gly Ala Asp Gly Gly Ser Ala Ala Cys Ser Trp Lys Phe Arg Leu
  1               5                  10                  15

Gly Cys Leu Leu Gly Ala Met Glu Ser Asp Phe Tyr Leu Arg Tyr Tyr
            20                  25                  30

Val Gly His Lys Gly Lys Phe Gly His Glu Phe Leu Glu Phe Glu Phe
        35                  40                  45

Arg Pro Asp Gly Lys Leu Arg Tyr Ala Asn Ser Ala Ala Ala Xaa Ser
    50                  55                  60

Met Cys Ser Gly Phe Xaa Gly His Gly Xaa Thr Gly Gln Ser Xaa Glu
65                  70                  75                  80

Xaa Leu Arg Val Trp Gln Trp Asn Phe
                85


<210> 6473
<211> 96
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5723

```
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (90)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6473
Ala Xaa Gln Arg Ala Val Tyr Asp Glu Gln Gly Thr Val Asp Glu Asp
 1               5                  10                  15

Ser Pro Val Leu Thr Gln Asp Arg Asp Trp Glu Ala Tyr Trp Arg Leu
                20                  25                  30

Leu Phe Lys Lys Ile Ser Leu Glu Asp Ile Gln Ala Phe Glu Lys Thr
            35                  40                  45

Tyr Lys Gly Ser Glu Glu Glu Leu Ala Asp Ile Lys Gln Ala Tyr Leu
    50                  55                  60

Asp Phe Lys Gly Asp Met Asp Gln Ile Met Glu Ser Val Leu Cys Val
65                  70                  75                  80

Gln Tyr Thr Glu Glu Pro Arg Met Lys Xaa Tyr His Ser Ala Ser Tyr
                85                  90                  95


<210> 6474
<211> 99
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (55)
<223> Xaa equals any of the naturally occurring L-amino acids
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5724

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<222> (56)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (69)
<223> Xaa equals any of the naturally occurring L-amino acids

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<220>
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<222> (88)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (95)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6474
Lys Glu Ser Thr Leu His Leu Val Leu Arg Leu Arg Gly Gly Met Gln
  1   5   10   15

Ile Phe Val Lys Thr Leu Thr Gly Lys Thr Ile Thr Leu Glu Xaa Glu
            20   25   30

Pro Ser Asp Thr Ile Glu Asn Val Glu Ala Lys Ile Gln Asp Lys Glu
            35   40   45

Gly Ile Pro Pro Asp Gln Xaa Xaa Leu Ile Phe Ala Gly Lys Gln Leu
        50   55   60

Glu Asn Gly Arg Xaa Leu Ser Asp Tyr His Ile Gln Xaa Asp Pro Pro
 65   70   75   80

Cys Thr Trp Cys Ser Val Ser Xaa Val Gly Cys Lys Ser Ser Xaa Arg
                85   90   95

Pro Asp Trp

<210> 6475

5725

<211> 64
<212> PRT
<213> Homo sapiens

<220>
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<222> (27)
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<220>
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<222> (34)
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<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6475
Gly Lys Leu Val Arg Leu Gln Val Pro Gly Arg Asn Ser Arg Val Asp
 1   5   10   15

Pro Arg Val Arg Gly Ser Glu Leu Ser Gly Xaa Ile Ser Ser Ala Cys
            20   25   30

Asp Xaa Glu Xaa Asn Met Glu Arg Arg Xaa Ile Thr Ile Ser Lys Ser
            35   40   45

Glu Tyr Ser Xaa His Ser Ser Leu Ala Ser Lys Xaa Asp Val Glu Gln
        50   55   60

5726

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<210> 6476
<211> 82
<212> PRT
<213> Homo sapiens

<220>
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<222> (32)
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<220>
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<222> (76)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6476
Ala Phe Leu Ala Ser Gly Pro Tyr Leu Thr His Gln Gln Lys Val Leu
  1               5              10              15

Arg Leu Tyr Lys Arg Ala Leu Arg His Leu Glu Ser Trp Cys Val Xaa
            20              25              30

Arg Asp Lys Tyr Arg Tyr Phe Ala Cys Leu Met Arg Ala Arg Phe Glu
          35              40              45

Glu His Lys Asn Glu Lys Asp Met Ala Lys Ala Thr Gln Leu Xaa Asn
        50              55              60

Glu Ala Xaa Gly Lys Asn Ser Gly Thr Ala Xaa Xaa Thr Ala Ile His
 65              70              75              80

Leu Pro
```

5727

```
<210> 6477
<211> 48
<212> PRT
<213> Homo sapiens

<400> 6477
Ala Leu Leu Leu Gly Lys Lys Gly Ile Glu Lys Asn Leu Gly Ile Gly
 1               5                  10                  15

Lys Val Ser Ser Phe Glu Glu Lys Met Ile Ser Asp Ala Ile Pro Glu
                20                  25                  30

Leu Lys Ala Ser Ile Lys Lys Gly Glu Asp Phe Val Lys Thr Leu Lys
            35                  40                  45



<210> 6478
<211> 158
<212> PRT
<213> Homo sapiens

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (150)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6478
Arg Val Leu Ala Asp Ile Thr Lys Ser Leu Thr Asn Pro Thr Pro Ile
 1               5                  10                  15

Gln Gln Gln Leu Arg Arg Phe Thr Glu His Asn Ser Ser Pro Asn Val
                20                  25                  30

Ser Gly Ser Leu Ser Ser Gly Leu Gln Lys Ile Phe Xaa Asp Pro Thr
            35                  40                  45
```

5728

```
Asp Ser Asp Leu His Lys Leu Lys Ser Pro Ser Gln Asp Asn Thr Asp
        50              55              60

Ser Tyr Phe Arg Gly Lys Thr Leu Leu Leu Val Gln Gln Ala Ser Ser
65              70          .       75              80

Gln Ser Met Thr Tyr Ser Glu Lys Asp Glu Arg Glu Ser Ser Leu Pro
            85                  90              95

Asn Gly Arg Ser Val Ser Leu Met Asp Leu Gln Xaa Thr His Ala Ala
            ·100         105              110

Gln Val Glu His Ala Ser Val Met Leu Asp Val Pro Ile Arg Leu Thr
        115             120             125

Gly Ser Gln Leu Ser Ile Thr Gln Val Ala Ser Ile Lys Gln Leu Arg
    130             135             140

Glu Thr Gln Ser Thr Xaa Gln Ser Ala Pro Gln Val Arg Arg
145             150             155
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<210> 6479
<211> 69
<212> PRT
<213> Homo sapiens

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<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (10)

5729

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<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (54)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (62)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (63)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6479
Thr Xaa Xaa Leu Ser Xaa Ala Phe Xaa Xaa Glu Asp Pro Gly Leu Arg
  1           5                   10                  15

Thr Arg Ala Cys Asp Xaa Ile His Ser Ser Ile Val Ala Thr Tyr Xaa
             20              25                  30

Gln Xaa Thr Gly Arg Arg Ser Thr Thr Ser Thr Thr Gly Lys Thr Leu
         35              40                  45

Glu Leu Pro Asn Leu Xaa Arg Leu Ala Ala His Ala Pro Xaa Xaa Ser
     50              55                  60

Trp Arg Asn Lys Gly
 65


<210> 6480
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5730

<211> 62
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (62)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6480
Ser Gly His Ser Asn Tyr Met Val Asp Trp Tyr Gln Gln Arg Pro Gly
  1   5   10   15

Lys Gly Pro Arg Phe Val Met Arg Val Gly Thr Ser Gly Val Val Gly
             20   25   30

Pro Arg Gly Asp Gly Ile Pro Asp Arg Phe Ser Val Leu Ala Ser Gly
         35   40   45

Leu Ser Arg Asp Leu Thr Ile Thr Asn Ile Gln Glu Arg Xaa
     50   55   60

<210> 6481
<211> 62
<212> PRT
<213> Homo sapiens

<220>
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<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

5731

<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (59)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6481
Ile Lys Arg Val Ser Leu Leu Xaa Asn Pro Pro Thr Val Gly Gly Gly
 1   5   10   15

Thr Leu Lys Leu Thr Asp Val His Pro Xaa Ile Leu Glu Pro Thr Ser
            20   25   30

Ala Xaa Ser Thr Thr His Pro Xaa Phe Tyr Pro Asn Xaa Phe Gly Ala
        35   40   45

Asn Pro Thr Leu Leu Xaa Leu Phe Pro Pro Xaa Tyr Pro Leu
    50   55   60

<210> 6482
<211> 118
<212> PRT
<213> Homo sapiens

<400> 6482
Pro Thr Gly Pro Asp Pro Ala Gly Lys Glu Gly Glu Gly Gly Gln Ala
 1   5   10   15

Gln Cys Ser Arg Glu His Ala Gly Asp Pro Trp Phe Gln Ser Pro Ala
            20   25   30

Gly Ala Ala Thr Lys Pro Ala Leu Lys Ser Glu Glu Lys Thr Pro Ile
        35   40   45

Lys Lys Pro Gly Asp Gly Arg Lys Val Thr Phe Phe Glu Pro Gly Ser
    50   55   60

Gly Asp Glu Asn Gly Thr Ser Asn Lys Glu Asp Glu Phe Arg Met Pro
 65   70   75   80

Tyr Leu Ser His Gln Gln Leu Pro Ala Gly Ile Leu Pro Met Val Pro
                85   90   95

5732

```
Glu Val Ala Gln Ala Val Gly Val Ser Gln Gly His His Thr Lys Asp
            100                 105                 110

Phe Thr Arg Ala Ala Pro
         115



<210> 6483
<211> 96
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (23)
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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5733

<222> (34)
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<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

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<220>
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<222> (77)
<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (86)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6483
Xaa Xaa Gly Xaa Pro Ala Gly Thr Arg Ser Gly Ile Pro Gly Ser Thr
 1   5   10   15

His Ala Pro Phe Xaa Xaa Xaa Gly Ala Ala Leu Xaa Ala Gly Gly Ile
             20   25   30

Trp Xaa Xaa Ile Asp Gly Ala Ser Phe Leu Lys Ile Phe Gly Pro Leu

5734

```
        35                    40                    45

Xaa Xaa Ser Ala Met Gln Xaa Val Asn Val Gly Tyr Xaa Leu Ile Ala
        50                    55                    60

Ala Gly Val Val Val Phe Ala Leu Gly Xaa Leu Gly Xaa Tyr Gly Ala
 65                    70                    75                    80

Lys Thr Glu Ser Lys Xaa Ala Leu Val Thr Tyr Phe Tyr Ile Leu Leu
                    85                    90                    95
```

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<210> 6484
<211> 83
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (53)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6484
Ala Ser Ile Ala Ser Thr Ser Trp Arg His Phe Ala Glu Val Ala Tyr
  1                 5                  10                    15

Ile Val Glu Gly Asp Phe Thr Gly Val Leu Leu Pro Glu Leu Val Val
                 20                    25                   30

Ser Ile Val Leu Leu Leu Ser Lys Asn Ala Gly Leu Met Gln Glu Ala
                 35                    40                   45

Gly Ala Val Pro Xaa Leu Gly Gly Leu Leu Glu His Leu Asp Arg Phe
         50                    55                   60

Asn His Leu Ala Pro Gly Lys Glu Arg Asp Asp His Glu Glu Leu Ala
 65                    70                    75                    80

Cys Leu Ala
```

```
<210> 6485
<211> 94
<212> PRT
<213> Homo sapiens
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5735

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<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (94)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6485
Phe Asn Tyr Xaa Leu Asp Cys Leu Gly Asn Gly Arg Thr Glu Cys His
  1               5                  10                  15

Cys Gly Ala Xaa Asn Cys Ser Gly Phe Leu Gly Val Arg Pro Lys Ser
             20                  25                  30

Ala Cys Ala Xaa Thr Asn Glu Glu Lys Ala Lys Asn Ala Lys Leu Lys
             35                  40                  45

Gln Lys Arg Arg Lys Ile Lys Thr Glu Pro Lys His Met His Glu Asp
         50                  55                  60

Tyr Cys Phe Gln Cys Gly Asp Gly Gly Xaa Leu Val Met Cys Asp Lys
 65                  70                  75                  80
```

5736

```
Lys Xaa Cys Pro Lys Tyr Thr Thr Phe Leu Leu Pro Xaa Xaa
            85                      90
```

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<210> 6486
<211> 36
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6486
Gly Lys Arg Arg Asp Asp Gly Leu Ser Ala Ala Ala Arg Lys Gln Arg
  1               5                  10                  15

Asp Ser Glu Ile Met Gln Xaa Lys Gln Lys Lys Ala Asn Glu Lys Lys
            20                  25                  30

Glu Glu Pro Lys
 ,          35
```

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<210> 6487
<211> 69
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6487
Arg Arg Gln Val Gly Ala Ala Ala Val Ala Met Thr Arg Gly Asn Gln
  1               5                  10                  15

Arg Glu Leu Thr Arg Gln Lys Asn Met Lys Lys Gln Ser Asp Ser Val
            20                  25                  30

Lys Gly Lys Arg Arg Asp Asp Gly Leu Ser Ala Ala Xaa Arg Lys Gln
            35                  40                  45

Arg Asp Ser Glu Ile Met Gln Gln Lys Gln Lys Lys Ala Asn Glu Lys
     50                  55                  60
```

Lys Glu Glu Pro Lys
 65

<210> 6488
<211> 119
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6488
Arg Lys Xaa Leu Ile Gln Arg Leu Leu Met Lys Asp Pro Lys Lys Arg
 1   5   10   15

Leu Gly Cys Gly Pro Arg Asp Ala Asp Glu Ile Lys Glu His Leu Phe
              20   25   30

Phe Gln Lys Ile Asn Trp Asp Asp Leu Ala Ala Lys Lys Val Pro Ala
              35   40   45

Pro Phe Lys Pro Val Ile Arg Asp Glu Leu Asp Val Ser Asn Phe Ala
           50   55   60

Glu Glu Phe Thr Glu Met Asp Pro Thr Tyr Ser Pro Ala Ala Leu Pro
 65   70   75   80

Gln Ser Ser Glu Glu Ala Val Ser Gly Leu Phe Phe Val Ala Pro Ser
              85   90   95

Ile Leu Phe Lys Arg Asn Ala Ala Val Ile Asp Pro Leu Gln Phe His
              100   105   110

Met Gly Val Glu Arg Leu Glu
           115

<210> 6489
<211> 88
<212> PRT
<213> Homo sapiens

<400> 6489
Gln Arg Phe Phe Gly Glu Val Leu Leu Tyr Phe Gln Met Ser Gln Ser
 1   5   10   15

5738

```
Asp Asp Arg Asp Ser Lys Arg Asp Ser Leu Glu Glu Gly Glu Leu Arg
            20                  25                  30

Asp His Arg Met Glu Ile Thr Ile Arg Asn Ser Pro Tyr Arg Arg Glu
            35                  40                  45

Asp Ser Met Glu Asp Ile Ser Pro Gln Leu Pro Leu Leu Thr Arg Thr
        50                  55                  60

Ser Cys Pro Ser Cys Leu His Leu Ser Val Pro Leu Glu Trp Met Ala
65                  70                  75                  80

Gly Gly Glu Val Glu Ala Asp Ser
                85
```

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<210> 6490
<211> 153
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6490
Glu Leu Ser Ser Val Val Ser Ser Ser Gly Thr Glu Gly Ala Ser Ser
  1               5                  10                  15

Leu Glu Lys Lys Glu Val Pro Gly Val Asp Phe Ser Ile Thr Gln Phe
            20                  25                  30

Val Arg Asn Leu Gly Leu Glu His Leu Met Asp Ile Phe Xaa Arg Glu
            35                  40                  45

Gln Ile Thr Leu Asp Val Leu Val Glu Met Gly His Lys Glu Leu Lys
        50                  55                  60

Glu Ile Gly Ile Asn Ala Tyr Gly His Arg His Lys Leu Ile Lys Gly
65                  70                  75                  80

Val Glu Arg Leu Ile Ser Gly Gln Gln Gly Leu Asn Pro Tyr Leu Thr
                85                  90                  95

Leu Asn Thr Ser Gly Ser Gly Thr Ile Leu Ile Asp Leu Ser Pro Asp
            100                 105                 110

Asp Lys Glu Phe Gln Ser Val Glu Glu Glu Met Gln Ser Thr Val Arg
        115                 120                 125
```

5739

```
Glu His Arg Asp Gly Gly His Ala Gly Gly Ile Phe Asn Arg Tyr Asn
        130                 135             140

Ile Leu Lys Ile Gln Lys Val Cys Asn
145                 150



<210> 6491
<211> 129
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<220>
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<400> 6491
Val Gln Ser Gly Ala Glu Xaa Lys Xaa Ser Gly Glu Ser Leu Ser Ile
    1               5               10              15

Ser Cys Gln Val Ser Gly Tyr Thr Leu Thr Ser Tyr Trp Ile Asn Trp
                20              25              30
```

5740

```
Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met Gly Arg Leu Asp
        35              40              45

Pro Ser Asp Ser Phe Ile Asn Tyr Asn Pro Ser Phe Glu Gly His Ile
    50              55              60

Ser Ile Ser Ala Asp Lys Phe Ile Ser Thr Ala Tyr Leu Lys Trp Asn
65              70              75              80

Thr Leu Glu Ala Ser Asp Thr Ala Met Tyr Tyr Cys Ala Leu Ser Gly
                85              90              95

Arg Gln Gln Leu Val Pro Val Tyr Trp Gly Gln Gly Thr Gln Val Xaa
            100             105             110

Arg Leu Leu Xaa Asn Pro Xaa Gln Xaa Gln Arg Leu Ser Ala Glu Pro
        115             120             125

Leu
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<210> 6492
<211> 86
<212> PRT
<213> Homo sapiens

<220>
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<222> (2)
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<220>
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<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (43)

5741

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<220>
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<222> (75)
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<220>
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<222> (76)
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<220>
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<222> (77)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (78)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (79)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (82)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (84)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6492
Leu Xaa Lys Phe Ser Val Arg Phe Lys Glu Asn Ser Val Ala Val Lys
  1               5                  10                  15

Val Val Gln Gly Pro Ala Gly Gly Asp Asn Xaa Lys Xaa Arg Tyr Lys
              20                  25                  30

Lys Lys Gly Ser His Cys Leu Xaa Val Thr Xaa Gln Leu Gly Gly Gly
          35                  40                  45

Thr Met Gln Arg Trp Xaa Xaa Leu Pro Pro Glu Pro Ala Leu Ile Xaa
        50                  55                  60

Leu Xaa Pro Xaa Phe Phe Gly Gly Xaa Phe Xaa Xaa Xaa Xaa Xaa Gly
 65                  70                  75                  80

Gly Xaa Gly Xaa Gly Val
              85


<210> 6493
<211> 31
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
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<220>
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<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids
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5743

<220>
<221> SITE
<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6493
Phe His Lys Ala Tyr Ala Xaa Leu Val Xaa Ser Trp His Ser Leu Thr
  1   5   10   15

Pro Val Ser Ser Asp His Xaa Phe Ser Xaa Trp Arg Ile Tyr His
              20   25   30

<210> 6494
<211> 135
<212> PRT
<213> Homo sapiens

<400> 6494
Trp Glu Arg Leu Pro Ser Leu Ala Leu Lys Ala Ser Ser Leu Asp Leu
  1   5   10   15

Ala Thr Ala Ala Leu Thr Val Met Leu Asp Ser Val Thr His Ser Thr
              20   25   30

Phe Leu Pro Asn Ala Ser Phe Cys Asp Pro Leu Met Ser Trp Thr Asp
          35   40   45

Leu Phe Ser Asn Glu Glu Tyr Tyr Pro Ala Phe Glu His Gln Thr Ala
      50   55   60

Cys Asp Ser Tyr Trp Thr Ser Val His Pro Glu Tyr Trp Thr Lys Arg
 65   70   75   80

His Val Trp Glu Trp Leu Gln Phe Cys Cys Asp Gln Tyr Lys Leu Asp
              85   90   95

Thr Asn Cys Ile Ser Phe Cys Asn Phe Asn Ile Ser Gly Leu Gln Leu
          100   105   110

Cys Ser Met Thr Gln Glu Glu Phe Val Glu Ala Ala Gly Leu Cys Gly
          115   120   125

Glu Tyr Leu Tyr Phe Gln Phe

5744

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<210> 6495
<211> 131
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<213> Homo sapiens

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6495
Pro Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr Ala Val Xaa
 1               5                  10                  15

Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg
            20                  25                  30

Gly Lys Leu Asn Lys Met Asp Gly Ser Arg Lys Glu Glu Glu Glu Asp
            35                  40                  45

Ser Thr Phe Thr Asn Ile Ser Leu Ala Asp Asp Ile Asp His Ser Ser
        50                  55                  60

Arg Ile Leu Tyr Pro Arg Pro Lys Ser Leu Leu Pro Lys Met Met Asn
65                  70                  75                  80

Ala Asp Met Asp Asp Leu Ser Ala Arg Val Asp Ala Val Lys Glu Glu
                85                  90                  95

Asn Leu Lys Leu Lys Ser Glu Asn Gln Val Leu Xaa Gln Tyr Ile Glu
            100                 105                 110

Asn Leu Met Ser Ala Ser Ser Val Phe Gln Thr Thr Asp Thr Lys Ser
            115                 120                 125

Lys Arg Lys
        130


<210> 6496
<211> 44
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5745

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<212> PRT
<213> Homo sapiens

<400> 6496
Ile Asn Ile His Lys Cys Tyr Phe Leu Phe Leu Tyr Phe Ile Phe Phe
 1               5                  10                  15


Ser Pro Phe Gln Ile Leu Gly Val Trp Leu Thr Tyr Arg Tyr Arg Asn
            20                  25                  30


Gln Lys Asp Pro Arg Ala Asn Pro Ser Ala Phe Leu
        35                  40




<210> 6497
<211> 129
<212> PRT
<213> Homo sapiens

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5746

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<400> 6497
Trp Xaa Glu Ser Gly Leu Pro Ala Val Ala Ala Thr Leu Lys Leu Xaa
 1               5                  10                  15

Xaa Pro Pro Gly Cys Met Asn Ser Ala Arg Gly Leu Leu Arg Thr Leu
            20                  25                  30

His Gly Ala Arg His Met Val Arg Asp Ala Pro Glu Ile Pro Gln Gly
            35                  40                  45

Gly Ser Pro Ala Xaa Cys Ser Xaa Phe Arg Pro Asn Pro Glu Leu Thr
      50                  55                  60
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5747

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Glu Ala Leu Thr Thr Ser Phe Val Arg Arg Leu Phe Trp Gly Ser Xaa
65                      70              75                  80

Gly Ala Xaa Thr Pro Leu Ala Glu Xaa Leu Arg Thr Xaa Ser Ala Ser
            85                  90              95

Ser Ser Asp Pro Val Ser Ala Pro Xaa Ser Leu Thr Ala Glu Xaa Xaa
            100             105             110

Xaa Gln Pro Ser Ser Tyr Xaa Gly Thr Pro Arg Phe Leu Arg Ile Pro
        115             120                 125

Glu
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<210> 6498
<211> 104
<212> PRT
<213> Homo sapiens

<400> 6498
Pro Arg Val Arg Glu Asp Glu Gln Phe Pro Ser Ile Pro Ala Leu Val
  1           5               10              15

His Ser Tyr Met Thr Gly Arg Arg Pro Leu Ser Gln Ala Thr Gly Ala
            20              25              30

Val Val Ser Arg Pro Val Thr Trp Gln Gly Pro Leu Arg Arg Ser Phe
            35              40              45

Ser Glu Asp Thr Leu Met Asp Gly Pro Ala Arg Ile Glu Pro Ile Arg
        50              55              60

Ala Arg Lys Trp Ser Asn Ser Gln Pro Ala Asp Leu Ala His Met Gly
65                  70              75                  80

Gln Ser Arg Glu Asp Pro Ala Gly Met Glu Ala Ser Thr Met Pro Ile
            85                  90              95

Ser Ala Leu Pro Arg Thr Ser Ser
            100
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<210> 6499
<211> 190
<212> PRT
<213> Homo sapiens
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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6499
Ala Ser Gly Thr Trp Asn Ala Pro Ala Gly Trp Cys Pro Gly Val Leu
  1               5                  10                  15

Ser Pro Leu Leu Pro Thr Ser Ala Gly Pro Val Ser Ser Cys Ala Gln
            20                  25                  30

Cys Gly Pro Val Ser Ala Pro Ala Ala Leu Ser Pro Pro His Ala Gly
          35                  40                  45
```

5749

```
Ser Arg Pro Gly His Arg Ala Val Xaa Cys Phe Pro Thr Ala Ala Gly
    50              55              60

Thr Ala Arg His Thr Gln Gly Leu Gly Arg Ala Gly Gly His Thr Ala
 65              70              75              80

Trp Leu Ser Cys Ser Trp Ser Pro Ala Ser Pro Arg Arg Pro Gly Gly
                85              90              95

Ser Ile Ser Gln Glu Ala Arg Ser Pro Pro Gly Gly Trp Ala Gln Pro
            100             105             110

Arg Gln Met Asp Glu Lys Thr Xaa Lys Ala Xaa Glu Met Ala Leu Ser
        115             120             125

Leu Thr Arg Ala Val Ala Gly Gly Asp Glu Gln Val Ala Met Lys Cys
    130             135             140

Ala Ile Trp Leu Ala Glu Gln Arg Val Pro Leu Ser Val Gln Leu Lys
145             150             155             160

Pro Glu Val Ser Pro Thr Gln Asp Ile Arg Phe Leu Met Xaa Gln Asn
            165             170             175

Gly His Ser Ser Xaa Ile Gln Pro Xaa Xaa Xaa Gln Gly Gly
            180             185             190
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<210> 6500
<211> 86
<212> PRT
<213> Homo sapiens

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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5750

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<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<220>
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<222> (74)
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<400> 6500
Xaa Ile Pro Ile Leu Asn Pro Phe Xaa Ile Arg Leu Thr Ile Gly Lys
 1               5                  10                  15

Ala Gly Thr Pro Ala Gly Thr Gly Pro Glu Phe Pro Gly Arg Pro Thr
            20                  25                  30

Arg Xaa Ala Xaa Lys Gln Ala Gly Gln Lys Lys Lys Gln Gly His Asp
        35                  40                  45

Xaa Lys Ala Ala Xaa Lys Ala Ala Leu Ile Tyr Thr Cys Thr Val Cys
    50                  55                  60

Arg Thr Xaa Met Xaa Asp Pro Xaa Thr Xaa Lys Gln His Phe Glu Ser
65                  70                  75                  80

Lys His Pro Lys Thr Pro
            85
```

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<210> 6501
<211> 103
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (99)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6501
Gln Met Arg Val Lys Asp Pro Thr Lys Ala Leu Pro Glu Lys Ala Lys
  1               5                  10                  15

Arg Ser Lys Arg Pro Thr Val Pro His Asp Glu Asp Ser Ser Asp Asp
              20                  25                  30

Ile Ala Val Gly Leu Thr Cys Gln His Val Ser His Ala Ile Ser Val
          35                  40                  45

Asn His Val Lys Arg Ala Ile Ala Glu Asn Leu Trp Ser Val Cys Ser
      50                  55                  60

Glu Cys Leu Lys Glu Arg Gly Phe Tyr Asp Gly Gln Leu Val Leu Thr
 65                  70                  75                  80

Ser Asp Ile Trp Leu Cys Leu Lys Cys Gly Phe Gln Gly Cys Gly Lys
              85                  90                  95

Asn Ser Xaa Ser Gln His Ser
          100


<210> 6502
<211> 92
<212> PRT
<213> Homo sapiens

<400> 6502
Ile Leu Lys Val Gly Ala Pro Ala Gly Thr Gly Pro Glu Phe Pro Gly
  1               5                  10                  15

Ile Ser Thr Pro Ser Phe Ser Ser Tyr Tyr Lys Gly Gly Phe Glu Gln
              20                  25                  30

Lys Met Ser Arg Arg Glu Ala Gly Leu Ile Leu Gly Val Ser Pro Ser
              35                  40                  45
```

5752

Ala Gly Lys Ala Lys Ile Arg Thr Ala His Arg Arg Val Met Ile Leu
        50   55   60

Asn His Pro Asp Lys Gly Gly Ser Pro Tyr Val Ala Ala Lys Ile Asn
65   70   75   80

Glu Ala Lys Asp Leu Leu Glu Thr Thr Thr Lys His
                85   90

<210> 6503
<211> 147
<212> PRT
<213> Homo sapiens

<220>
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<222> (136)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6503
Trp Ile Pro Arg Ala Ala Gly Ile Arg His Glu Glu Glu Ser Met Asn
  1   5   10   15

Glu Ser His Pro Arg Lys Cys Ala Glu Ser Phe Glu Met Trp Asp Asp
                20   25   30

Arg Asp Ser His Cys Arg Arg Pro Lys Phe Glu Gly His Pro Pro Glu
                35   40   45

Ser Trp Lys Trp Ile Leu Ala Pro Val Ile Leu Tyr Ile Cys Glu Arg
        50   55   60

Ile Leu Arg Phe Tyr Arg Ser Gln Gln Lys Val Val Ile Thr Lys Val
65   70   75   80

Val Met His Pro Ser Lys Val Leu Glu Leu Gln Met Asn Lys Arg Gly
                85   90   95

Phe Ser Met Glu Val Gly Gln Tyr Ile Phe Val Asn Cys Pro Ser Ile
                100   105   110

Ser Leu Leu Gly Met Ala Ser Phe Tyr Phe Asp Leu Cys Ser Arg Gly
                115   120   125

Arg Phe Leu Leu His Ser Tyr Xaa Ser Ser Arg Gly Leu Asp Arg Lys
        130   135   140

Ser Ile Arg

5753

145

<210> 6504
<211> 137
<212> PRT
<213> Homo sapiens

<400> 6504
Glu Gly Asn Arg Ser Asp Val Thr Ser Val Lys Asp Ala Lys Ile Ala
 1   5   10   15

Val Tyr Ser Cys Pro Phe Asp Gly Met Ile Thr Glu Thr Lys Gly Thr
            20   25   30

Val Leu Ile Lys Thr Ala Glu Glu Leu Met Asn Phe Ser Lys Gly Glu
        35   40   45

Glu Asn Leu Met Asp Ala Gln Val Lys Ala Ile Ala Asp Thr Gly Ala
    50   55   60

Asn Val Val Val Thr Gly Gly Lys Val Ala Asp Met Ala Leu His Tyr
65   70   75   80

Ala Asn Lys Tyr Asn Ile Met Leu Val Arg Leu Asn Ser Lys Trp Asp
                85   90   95

Leu Arg Arg Leu Cys Lys Thr Val Gly Ala Thr Ala Leu Pro Arg Leu
            100   105   110

Thr Pro Pro Val Leu Glu Glu Met Gly His Cys Asp Ser Val Tyr Ser
        115   120   125

Pro Glu Val Trp Arg Tyr Ser Gly Gly
    130   135

<210> 6505
<211> 109
<212> PRT
<213> Homo sapiens

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

5754

<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<220>
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<220>
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<220>
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<222> (108)
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<400> 6505
Leu Gln Leu Xaa Ser Xaa Gly Gly Lys Lys Arg Pro Leu Gly Phe Asn
 1   5   10   15

Pro Ala Pro Phe Gly Pro Lys Gly Phe Asn Pro Arg Gly Xaa Pro Pro
            20   25   30

Gly Lys Asn Phe Ser Pro Gly Gly Gly Xaa Arg Asn Pro Gln Thr Xaa
         35   40   45

Pro Phe Pro Arg Gly Pro Gly Gly Xaa Pro Glu Thr Xaa Phe Gly Lys
         50   55   60

5755

```
Lys Pro Pro Ile Gly Gly Pro Arg Ala Leu Pro Val Ser Gln Arg Glu
 65              70              75                  80

Thr Phe Ser Pro Thr Pro Lys Arg Thr Trp Phe Trp Gly Phe Leu Asn
                85              90                  95

Pro Gly Xaa Pro Thr Lys Thr Arg Val Cys Pro Xaa Ala
            100             105
```

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<210> 6506
<211> 133
<212> PRT
<213> Homo sapiens

<220>
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<220>
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<222> (132)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6506
Ala Ala Ala Glu His Arg Arg Gly Arg Lys Lys Asp Glu Val Arg Glu
  1              5              10                  15

Gly Ala Gly Phe Leu Glu Pro Gln Gly Ser Thr Glu Leu Ser Lys Xaa
                20              25                  30

Val Pro Val Asn Trp Glu Pro Pro Gln Pro Leu Pro Phe Pro Lys Tyr
                35              40                  45

Leu Arg Cys Tyr Arg Cys Leu Leu Glu Thr Lys Glu Leu Gly Cys Leu
     50              55              60

Leu Gly Ser Asp Ile Cys Leu Thr Pro Ala Gly Ser Ser Cys Ile Thr
 65              70              75                  80

Leu His Lys Lys Asn Ser Ser Gly Ser Asp Val Met Val Ser Asp Cys
                85              90                  95

Arg Ser Lys Glu Gln Met Ser Asp Cys Ser Asn Thr Arg Thr Ser Pro
            100             105             110

Val Ser Gly Phe Trp Ile Phe Ser Gln Tyr Cys Phe Leu Asp Phe Cys
            115             120             125
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5756

Asn Asp Pro Xaa Asn
    130

<210> 6507
<211> 45
<212> PRT
<213> Homo sapiens

<400> 6507
Ser Cys Thr Met Pro Ser Ser Ile Ile Thr Leu Lys Asn Gly Ile Gln
  1   5   10   15

Asn Met Leu Gln Phe Tyr Ile Pro Glu Val Glu Gly Val Glu Gln Val
             20   25   30

Met Asp Asp Glu Ser Asp Glu Lys Glu Ala Asn Ser Pro
          35   40   45

<210> 6508
<211> 72
<212> PRT
<213> Homo sapiens

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<221> SITE
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<222> (63)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6508
Ser Ala Pro Lys Ala Pro Ala Thr Pro Gly Ala Gln Xaa Ala Pro Asp
  1   5   10   15

Val Arg Leu Leu Tyr Val Leu Ala Ile Ala Ala Leu Gly Gly Leu Cys
             20   25   30

Leu Ile Leu Ala Ser Ser Leu Leu Tyr Val Ala Cys Leu Arg Glu Gly
          35   40   45

Arg Arg Gly Arg Arg Arg Lys Tyr Ser Leu Gly Arg Ala Asn Xaa Gly
       50   55   60

Arg Arg Ile Cys Gly Ala Thr Ala

5757

65   70

<210> 6509
<211> 35
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6509
Ser Gly Val Ser Xaa Phe Ser Asn Pro Val Gln Tyr Trp Glu Ile Gln
 1   5   10   15

Pro Ser Thr Phe Arg Cys Val Tyr Val Arg Ser Ala Ile Gln Leu Gly
             20   25   30

Asn Tyr Lys
         35

<210> 6510
<211> 115
<212> PRT
<213> Homo sapiens

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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
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<223> Xaa equals any of the naturally occurring L-amino acids

5758

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<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (109)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6510
Asn Ser Ala Arg Ala Ser Ala Leu Lys Gln Tyr Xaa Arg Ser Leu Pro
  1           5               10              15

Glu Pro Leu Met Thr Tyr Glu Leu His Gly Asp Phe Ile Val Pro Ala
            20              25              30

Lys Ser Gly Ser Pro Glu Ser Xaa Val Asn Ala Ile His Phe Leu Val
        35              40              45

His Lys Leu Pro Glu Lys Asn Lys Glu Met Leu Asp Ile Leu Val Lys
     50              55              60

His Leu Thr Asn Val Xaa Asn Xaa Ser Lys Gln Asn Xaa Xaa Thr Val
 65              70              75              80

Ala Asn Leu Gly Val Val Phe Gly Pro Thr Leu Met Arg Pro Gln Glu
            85              90              95

Glu Thr Val Ala Ala Leu Met Asp Phe Glu Val Ser Xaa Tyr Cys Cys
            100             105             110

Gly Lys Ser
        115


<210> 6511
<211> 129
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (103)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (118)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6511
Thr Gly Asn Lys Met Gln Asp Pro Asn Ala Asp Thr Glu Trp Asn Asp
 1   5   10   15

Ile Leu Arg Lys Lys Gly Ile Leu Pro Pro Lys Glu Ser Leu Lys Glu
            20   25   30

Leu Glu Glu Glu Ala Glu Glu Glu Gln Arg Ile Leu Gln Gln Ser Val
        35   40   45

Val Lys Thr Tyr Glu Asp Met Thr Leu Glu Glu Leu Glu Asp His Glu
    50   55   60

Asp Glu Phe Asn Glu Glu Asp Glu Arg Ala Ile Glu Met Tyr Arg Arg
 65   70   75   80

Arg Arg Leu Ala Glu Trp Lys Ala Thr Lys Leu Lys Asn Lys Phe Gly
            85   90   95

Glu Val Leu Glu Ile Ser Xaa Lys Asp Tyr Val Gln Glu Val Thr Lys
            100   105   110

Ala Gly Glu Gly Leu Xaa Val Ile Leu His Leu Tyr Asn Gln Gly Ile
        115   120   125

Pro

<210> 6512
<211> 110
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (96)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (101)
<223> Xaa equals any of the naturally occurring L-amino acids

5760

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<400> 6512
Phe Glu Lys Tyr Met Leu Thr Val Gln Tyr Phe Ser Ile Ile Phe Pro
 1               5                  10                  15

Leu Phe Tyr Arg Ala Asn Val Lys Pro Arg Asn Ser Thr Pro Pro Ser
            20                  25                  30

Leu Ala Arg Asn Pro Ala Pro Gly Val Leu Thr Asn Lys Arg Lys Thr
            35                  40                  45

Tyr Thr Glu Ser Tyr Ile Ala Arg Pro Asp Gly Asp Cys Ala Ser Ser
    50                  55                  60

Leu Asn Gly Gly Asn Ile Lys Gly Ile Glu Gly His Ser Pro Gly Asn
65                  70                  75                  80

Leu Pro Lys Phe Cys His Glu Cys Gly Thr Lys Tyr Pro Val Glu Xaa
                85                  90                  95

Ala Lys Phe Cys Xaa Glu Cys Gly Ile Arg Arg Met Ile Leu
                100                 105                 110
```

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<210> 6513
<211> 75
<212> PRT
<213> Homo sapiens
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<400> 6513
Val Pro Ala Ala Gly Thr Pro Arg Ala Asn Gln Pro Gly Phe Arg Lys
 1               5                  10                  15

His Leu Gly Leu Leu Glu Lys Lys Lys Asp Tyr Lys Leu Arg Ala Asp
            20                  25                  30

Asp Tyr Arg Lys Lys Gln Glu Tyr Leu Arg Ala Leu Arg Lys Lys Ala
            35                  40                  45

Leu Glu Lys Asn Pro Asp Glu Phe Tyr Tyr Lys Met Thr Arg Val Lys
    50                  55                  60

Leu Gln Asp Gly Phe His Val Ile Glu Gly Asp
65                  70                  75
```

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<210> 6514
<211> 70
<212> PRT
<213> Homo sapiens
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<222> (1)
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<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6514
Xaa Val Phe Glu Xaa Xaa Ala Pro Gly Xaa Tyr Lys Phe Tyr Leu Gln
  1               5                  10                  15

Asn Arg Ser Leu Pro Gln Ser Xaa Pro Val Leu Lys Val Thr Leu Ala
              20                  25                  30

Val Ser Asp Leu Gln Lys Ser Leu Asn Tyr Trp Cys Tyr Leu Leu Gly
              35                  40                  45

Met Lys Ile Tyr Glu Lys Tyr Tyr Lys Ser Tyr Arg Ala Cys Leu Gly
      50                  55                  60

Phe Leu Lys Asn Pro Cys
  65                  70




<210> 6515
<211> 122
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
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5762

<222> (77)
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<220>
<221> SITE
<222> (81)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (99)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (103)
<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (116)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (122)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6515
Ser Trp Tyr Pro Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His
 1   5   10   15

Ala Ser Val Glu Leu Asn Glu Leu Leu Leu Asp Lys Asn Gln Glu Pro
            20   25   30

Gln Trp Arg Glu Thr Ala Arg Trp Ile Lys Phe Glu Glu Asp Val Asp
        35   40   45

Glu Asp Ala His Asp Ser Glu Ala Lys Val Ala Ser Leu Arg Gly Met
    50   55   60

Glu Leu Gln Gly Cys Ala Ser Thr Gln Val Glu Ser Xaa Asn Asn Gln
 65   70   75   80

Xaa Glu Gln Lys Gln Val Arg Leu Pro Glu Ser Arg Leu Thr Pro Trp
                85   90   95

Glu Val Xaa Phe Ile Gly Xaa Glu Lys Glu Glu Arg Asp Arg Leu His
            100   105   110

Leu Lys Ala Xaa Glu Glu Leu Asn Gln Xaa

5763

115   120

<210> 6516
<211> 47
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (15)
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<400> 6516
Pro Arg Val Arg Pro Arg Val Arg Glu Asn Glu Tyr Gln Ala Xaa Ser
  1   5   10   15

Val Pro Pro Thr Arg Leu Leu Ile Lys Glu Pro Ser Lys Arg Val Gly
              20   25   30

His Phe Arg Gly Leu Gln Asn Trp Lys Ala Xaa Ser Phe Thr Met
          35   40   45

<210> 6517
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<212> PRT
<213> Homo sapiens

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<220>
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5764

<400> 6517
Gly Gly Xaa Xaa Gly Xaa Pro Leu Tyr Leu His Leu Leu Met Ser Leu
  1   5   10   15

His Arg Ala Arg Leu Glu Ser Ser Ser Thr Gly Ser Ser Phe Pro Ala
            20   25   30

Asp Ser Ala Lys Pro Val Pro Leu Ala Val Val Ser Leu Asp Ser Arg
        35   40   45

<210> 6518
<211> 31
<212> PRT
<213> Homo sapiens

<400> 6518
Gly Asn Lys Ser Trp Ser Ser Thr Ala Val Thr Thr Ala Leu Glu Leu
  1   5   10   15

Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Glu Gln Asn Gln Trp
            20   25   30

<210> 6519
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<400> 6519
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  1   5   10   15

Val Thr Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser
            20   25   30

5765

Ala Arg Gly Tyr Thr Gly Asn Gly
        35   40

<210> 6520
<211> 59
<212> PRT
<213> Homo sapiens

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<400> 6520
Xaa Xaa His Xaa Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr
 1   5   10   15

Ala Val Xaa Ser Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn
            20   25   30

Ser Ala Arg Ser Ala Arg Ala Lys Asp Thr Asn Leu Val Phe Pro Gly
            35   40   45

Ile Glu Gln Gln Ala Phe Gln Asp Cys His Pro
    50   55

<210> 6521
<211> 66
<212> PRT
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5766

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<400> 6521
Gly Phe Xaa Xaa Leu Thr Arg Ile Thr Leu Thr Lys Gly Asn Lys Ser
  1               5                  10                  15

Trp Ser Ser Thr Ala Val Ala Ala Ala Leu Glu Leu Val Asp Pro Pro
            20              25                  30

Gly Cys Arg Asn Ser Ala Arg Ala Leu Ser Arg Pro Phe Ser Xaa Cys
          35              40                  45

Pro Arg Ala Xaa Thr Ala Pro Arg Xaa Arg Arg Trp Asn Ala Arg Thr
      50              55                  60

Xaa Gly
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5767

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<400> 6522
Gly Thr Arg Gly Gly Pro Val Pro Asn Ser Pro Tyr Asn Glu Ser Tyr
  1               5                   10                  15

Tyr Asn Ser Leu Ala Val Val Leu Gln Xaa Arg Asp Trp Glu Asn Pro
              20                  25                  30

Xaa Thr Xaa Pro Ser Xaa Xaa Gly Pro
          35                  40




<210> 6523
<211> 68
<212> PRT
<213> Homo sapiens

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5768

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<400> 6523
Arg Xaa Gln Lys Leu Ala Xaa Pro Pro Gln Val Ala Ala Ala Leu Glu
  1   5   10   15

Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Ala Ala Arg Ala
             20   25   30

Ala Arg Gly Gly Ala Arg Tyr Pro Ile Arg Pro Ile Val Ser Arg Ile
         35   40   45

Thr Ile His Trp Pro Ser Phe Xaa Asn Val Val Thr Gly Lys Thr Gln
     50   55   60

Xaa Xaa Xaa Ile
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<210> 6524
<211> 36
<212> PRT
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<400> 6524
Leu Val Pro Lys Gly Gly Pro Val Pro Asn Ser Pro Tyr Xaa Glu Ser
 1               5                 10                15


Tyr Tyr Asn Ser Leu Ala Val Val Leu Gln Arg Arg Asp Trp Glu Lys
            20                  25                  30


Pro Xaa Xaa Xaa
            35




<210> 6525
<211> 33
<212> PRT
<213> Homo sapiens

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<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6525
Ala Ala Arg Gly Gly Pro Gly Thr Asn Ser Pro Tyr Ser Glu Ser Tyr
 1               5                 10                15


Tyr Asn Ser Leu Ala Val Val Leu Asn Val Val Thr Gly Pro Xaa Xaa
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5770

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            20                    25                    30

Xaa
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<210> 6526
<211> 54
<212> PRT
<213> Homo sapiens

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<400> 6526
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Leu Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr Ala Val Ala
 1               5                  10                  15

Ala Ala Leu Glu Leu Val Gly Ala Arg Tyr Pro Ile Arg Pro Ile Val
             20                  25                  30

Ser Arg Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Val Val Thr Gly
             35                  40                  45

Lys Thr Gln Xaa Xaa Xaa
       50
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<210> 6527
<211> 69
<212> PRT
<213> Homo sapiens

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5771

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<400> 6527
Asp Ser Pro Leu Arg Lys Val Pro Ser Leu Lys Gly Asn Lys Ser Gly
 1   5   10   15

Ser Ser Thr Ala Val Xaa Val Val Leu Gln Leu Val Asp Pro Pro Gly
             20   25   30

Cys Arg Asn Ser Val Arg Ala Arg Asp Xaa Pro Met Lys Ser Gly Gly
         35   40   45

Trp Phe Ile His Trp Lys Cys Cys Val Xaa Ala Xaa Xaa Lys Xaa Thr
     50   55   60

Xaa Thr Ser Glu Glu
 65

<210> 6528
<211> 36

5772

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<212> PRT
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<223> Xaa equals any of the naturally occurring L-amino acids

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<400> 6528
Gly Thr Ser Gly Thr Arg Gly Gly Pro Val Pro Asn Ser Pro Tyr Xaa
  1               5                  10                  15

Glu Ser Tyr Tyr Asn Ser Leu Ala Val Val Leu Gln Arg Xaa Asp Trp
             20                  25                  30

Glu Thr Xaa Lys
         35




<210> 6529
<211> 68
<212> PRT
<213> Homo sapiens

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6529
Pro Ser Xaa Lys Arg Asn Lys Ser Trp Ser Ser Thr Ala Val Ala Ala
  1               5                  10                  15

Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Ala
             20                  25                  30
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5773

```
Ala Arg Ala Ala Arg Gly Gly Ala Arg Tyr Pro Ile Arg Pro Ile Val
         35                  40                  45

Ser Arg Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Val Val Ile Pro
      50                  55                  60

Pro Lys Lys Xaa
 65
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<210> 6530
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<212> PRT
<213> Homo sapiens

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<400> 6530
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Gly Thr Arg Gly Gly Pro Val Pro Asn Ser Pro Tyr Xaa Glu Ser Tyr
 1               5                   10                  15

Tyr Asn Ser Leu Ala Val Val Leu Gln Arg Arg Asp Trp Glu Asn Xaa
             20                  25                  30

Asn
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<210> 6531
<211> 36
<212> PRT
<213> Homo sapiens

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5774

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<223> Xaa equals any of the naturally occurring L-amino acids


<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids


<400> 6531
Gly Thr Ser Gly Thr Arg Gly Gly Pro Val Pro Asn Ser Pro Tyr Xaa
 1               5                   10                  15


Glu Ser Tyr Xaa Asn Ser Leu Ala Val Val Leu Gln Arg Arg Asp Trp
            20                  25                  30


Glu Asn Pro Xaa
            35




<210> 6532
<211> 61
<212> PRT
<213> Homo sapiens


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<220>
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5775

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6532
Gly Xaa Ile Trp Xaa Xaa Ser Thr Lys Lys Trp Arg Phe Ala Leu Glu
 1               5              10                15

Leu Val Asp Pro Pro Gly Cys Arg Asn Pro Ala Arg Ala Xaa Thr Arg
             20              25              30

Gly Gly Pro Val Pro Xaa Ser Pro Tyr Ser Glu Ser Xaa Tyr Asn Ser
         35              40              45

Leu Xaa Val Val Leu Gln Arg Arg Asp Trp Glu Asn Pro
     50              55              60


<210> 6533
<211> 49
<212> PRT
<213> Homo sapiens

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<400> 6533
Ser Lys Val Ser Ser Xaa Ile Lys Gly Thr Xaa Gly Pro Ala Pro Xaa
 1   5   10   15

Lys Val Ala Phe Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn
            20   25   30

Pro Xaa Arg Ala Xaa Xaa Gly Gly Ala Arg Phe Pro Ile Arg Pro Ile
        35   40   45

Xaa

<210> 6534
<211> 41
<212> PRT
<213> Homo sapiens

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5777

<223> Xaa equals any of the naturally occurring L-amino acids

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<400> 6534
Gly Thr Arg Gly Gly Pro Val Pro Asn Ser Pro Tyr Xaa Glu Ser Tyr
 1   5   10   15

Tyr Asn Ser Leu Ala Val Val Leu Gln Arg Leu Asp Trp Glu Asn Pro
            20   25   30

Asn Xaa Phe Leu Cys Xaa Phe Xaa Xaa
        35   40

<210> 6535
<211> 36
<212> PRT
<213> Homo sapiens

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6535
Gly Thr Ser Gly Thr Arg Gly Gly Pro Val Pro Asn Ser Pro Tyr Xaa
 1   5   10   15

Glu Ser Tyr Tyr Asn Ser Leu Ala Val Val Leu Gln Arg Arg Asp Trp
            20   25   30

Glu Asn Pro Lys
        35

<210> 6536
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<212> PRT
<213> Homo sapiens

<220>
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5778

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<400> 6536
Xaa Gly Thr Xaa Gly Thr Arg Gly Gly Pro Val Pro Asn Ser Pro Tyr
 1               5                  10                  15


Xaa Glu Ser Tyr Tyr Asn Ser Leu Ala Val Val Leu Gln Arg Arg Asp
                20                  25                  30


Trp Glu Asn Pro Xaa Xaa Phe Pro
            35                  40




<210> 6537
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<212> PRT
<213> Homo sapiens


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<400> 6537
Leu Lys Ala Pro Xaa Gly Thr Arg Gly Xaa Arg Arg Ser Ile Ser Ser
  1           5                  10                  15

Gly Ser Pro Gly Leu Gln Glu Phe Gly Thr Ser Gly Pro Arg Gly Gly
             20                  25                  30

Pro Val Pro Ser Ser Xaa Phe Ser Glu Ser Tyr Tyr Asn Ser Leu Ala
         35                  40                  45

Val Val Leu Gln Arg Arg Xaa Trp Glu Asn Pro Cys Leu Leu
     50                  55                  60



<210> 6538
<211> 80
<212> PRT
<213> Homo sapiens

<220>
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5780

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<400> 6538
Arg Arg Xaa Gly Glu Xaa Cys Ser Xaa Ile Asn Pro Gln Ile Xaa Gly
 1               5               10              15

Lys Lys Ile Trp Ser Ser Thr Ala Val Ala Asp Ala Leu Xaa Leu Val
            20              25              30

Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Ala Ala Arg Gly Gly Ala
        35              40              45

Arg Tyr Pro Ile Arg Pro Ile Val Ser Arg Ile Thr Ile His Trp Pro
    50              55              60

Ser Phe Tyr Asn Val Val Thr Gly Lys Thr Gln Xaa Xaa Xaa Xaa Gly
 65              70              75              80
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<210> 6539
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<212> PRT
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<220>
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5781

<220>
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<400> 6539
Xaa Gly Xaa Glu Gly Tyr Ile Arg Leu Ala Xaa Gln Leu Thr Leu Xaa
  1   5   10   15

Asn Gly Asn Lys Thr Trp Ser Ser Thr Ala Val Ala Ala Ala Leu Glu
               20   25   30

Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Gly Xaa Xaa Xaa
           35   40   45

<210> 6540
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<212> PRT
<213> Homo sapiens

<220>

5782

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<400> 6540
Phe Xaa Ser Pro Gly Cys Arg Asn Ser Ile Ser Ser Leu Ser Ile Pro
 1               5                   10                  15

Xaa Thr Ser Arg Gly Gly Pro Val Pro Asn Ser Pro Tyr Ser Glu Ser
             20                  25                  30

Tyr Tyr Asn Ser Leu Ala Val Val Leu Gln Arg Arg Asp Trp Glu Asn
         35                  40                  45

Pro Gly Val Thr Gln Leu Asn Arg Leu Ala Ala Gln Ser Pro Phe Xaa
     50                  55                  60

Gln Leu Gly Val Ile Ser Glu Glu Ala Arg Thr Asp Arg Pro Ser Gln
 65                  70                  75                  80

Gln Leu Arg Ser Leu Asn Gly Glu Trp Asp Ala Pro Cys Ser Xaa Ala
                 85                  90                  95

Leu Ser Ala Xaa Val Xaa Trp Leu Pro Ala Val
             100             105
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5783

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<210> 6541
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<212> PRT
<213> Homo sapiens

<220>
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<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6541
Xaa Lys Val Xaa Ala Thr Arg Thr Lys Gly Asn Lys Ser Trp Ser Ser
  1               5                  10                  15

Thr Ala Val Ala Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg
             20                  25                  30

Asn Ser Ala Arg Asp Phe Gln Val Asp Phe Ser Ala Ser Ser Lys Thr
         35                  40                  45

Asp Cys Phe Phe Ser Gly Leu Thr Leu Cys Gly Phe Phe Phe Phe Ser
     50                  55                  60

Leu Asn Leu Ile
 65




<210> 6542
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Thr Ala Ala Ala Ala Ala Xaa Glu Leu Gly Asp Xaa Pro Gly Cys Arg
 1               5                  10                      15

Asn Ser Ile Ser Ser Leu Ser Ile Pro Ser Thr Ser Arg Gly Gly Pro
            20                  25                  30
```

5785

```
Val Pro Asn Ser Pro Tyr Xaa Glu Ser Xaa Tyr Asn Ser Leu Ala Val
        35                  40              45

Gly Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Xaa Thr Gln Leu Asn
        50                  55              60

Arg Xaa Xaa Gly His Pro Pro Phe Xaa Xaa Trp Arg Asn Ser Glu Glu
65                  70              75                  80

Ala Arg Thr Xaa Arg Leu Pro Thr Xaa Ala Gln Pro Glu Trp Arg Met
            85              90                  95

Gly Arg Ala Leu Tyr Gly Ala Leu Ser Arg Gly Gly Cys Gly
            100             105                 110
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<210> 6543
<211> 166
<212> PRT
<213> Homo sapiens

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5786

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5787

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<400> 6543
Asn Ser Ala Arg Gly Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr
 1               5                  10                  15

Leu Thr Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Ala Tyr Ser Cys
            20              25                  30

Gln Gln Tyr Tyr Ser Phe Pro Phe Thr Phe Gly Pro Gly Thr Lys Val
        35              40                  45

Asp Ile Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro
    50          .       55              60

Ser Asp Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu
65                  70              75                  80

Asn Asn Phe Tyr Pro Xaa Glu Ala Lys Val Gln Trp Lys Val Asp Asn
            85                  90                  95

Xaa Leu Gln Ser Gly Asn Xaa Gln Glu Ser Val Thr Glu Gln Asp Ser
        100             105                 110

Lys Asp Arg Xaa Thr Ala Ser Ala Ala Pro Asp Gly Glu Gln Ser Arg
        115             120                 125

Xaa Gly Glu His Lys Phe Arg Leu Arg Val Xaa Xaa Gln Gly Xaa Xaa
    130             135                 140

Xaa Arg Xaa Lys Xaa Leu Thr Gly Xaa Xaa Xaa Gly Glu Xaa Pro Leu
145             150                 155                 160

Phe Leu Phe Ser Xaa Pro
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<210> 6544
<211> 143
<212> PRT
<213> Homo sapiens

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5788

<400> 6544
Val Lys Ile Thr Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Tyr
1   5   10   15

Cys Met Gln Ala Leu Gln Thr Pro Phe Thr Phe Gly Pro Gly Thr Lys
            20   25   30

Val Asp Ile Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro
        35   40   45

Pro Ser Asp Glu Xaa Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu
    50   55   60

Leu Asn Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp
65   70   75   80

Asn Ala Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp
            85   90   95

Ser Lys Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys
            100   105   110

Ala Asp Tyr Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln
            115   120   125

Gly Leu Ser Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
    130   135   140

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<211> 157
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<213> Homo sapiens

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Ser Cys Arg Ile Arg His Glu Val Leu Arg Gly Pro Leu Leu Gly His
  1   5   10   15

Thr Asp Ala Val Trp Gly Leu Ala Tyr Ser Ala Xaa His Gln Arg Leu
            20   25   30

Leu Ser Cys Ser Ala Xaa Gly Thr Leu Arg Leu Trp Asn Thr Thr Glu
        35   40   45

Val Ala Pro Ala Leu Xaa Val Phe Asn Asp Thr Lys Glu Leu Gly Ile
        50   55   60

Pro Ala Ser Val Asp Leu Xaa Ser Xaa Asp Pro Ser His Xaa Val Ser
 65   70   75   80

Ser Phe Ser Lys Gly Tyr Thr Asn Ile Phe Asn Met Glu Thr Gln Gln
                85   90   95

Arg Ile Leu Thr Leu Xaa Ser Asn Val Ile Gln Xaa Pro Thr Leu Pro
            100   105   110

Ala Lys Xaa Ile Xaa Xaa Ile Xaa Leu Leu Leu Phe Arg Ser Thr Ser
        115   120   125

Cys Ser Leu Lys Xaa Ala Ile Gln Phe Tyr Xaa Asn Xaa Ser Gly Lys
        130   135   140

Xaa Ser Leu His Gly Xaa Pro Leu Lys Leu Phe Gln Phe
145   150   155

5791

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<210> 6546
<211> 69
<212> PRT
<213> Homo sapiens

<400> 6546
Lys Trp Arg Leu Arg Ser Ala Pro Ala Glu Glu Gly Glu Ala Gly Gly
 1               5                  10                  15

Val Ser Val Leu Pro Val Cys Ser Thr Ala Pro Ala Ser Arg Thr Pro
                20                  25                  30

Pro Ala His Ala Asp Phe Pro Ser Ser Ala Arg Leu Ser Leu Val Leu
            35                  40                  45

Val Cys Ala Pro His Ala Pro Gly Arg Leu Val Ser His Cys Pro Ala
        50                  55                  60

Arg Leu Arg Trp Pro
 65
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<210> 6547
<211> 89
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<213> Homo sapiens

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<400> 6547
Leu Arg Ala Asp Xaa Xaa Lys Leu Xaa His Gln Glu Arg Thr Gln Xaa
 1   5   10   15

Leu Arg Gln Ala Pro Val Gly Xaa Gly Tyr Phe His Leu Leu Asp His
            20   25   30

Lys Xaa Xaa Ala Xaa Cys Xaa Ala Asp Phe Arg Gly His Trp Val Leu
        35   40   45

Ile Phe Phe Gly Phe Thr His Cys Pro Asp Ile Cys Pro Gln Gln Leu
        50   55   60

Glu Lys Leu Val Gln Val Val Arg Glu Leu Xaa Thr Xaa Leu Val Phe

5793

```
                65                  70                  75                  80

        Leu Gln Xaa Thr Cys Leu His His Cys
                          85




<210> 6548
<211> 61
<212> PRT
<213> Homo sapiens

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5794

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Gly Leu Xaa Phe Xaa Gly Met His Xaa Met Ala Xaa Thr His Trp Pro
 1               5                   10                  15

Cys Pro Trp Pro Ala Leu Met Thr Arg Trp Thr Val Ser Leu Arg Ala
             20                  25                  30

Pro Xaa Leu Ala Gln Leu Ser Asp Val Ala Met His Ser Leu Gly Xaa
         35                  40                  45

Ala Phe Ile Tyr Xaa Gln Thr Asp Asp Ile Xaa Asp Val
     50                  55                  60



<210> 6549
<211> 185
<212> PRT
<213> Homo sapiens

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5795

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5797

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 1   5   10   15

Gly Ser Xaa Xaa Phe Leu Pro Arg Lys Arg Xaa Thr Xaa Xaa Arg Gly
            20   25   30

Lys Val Xaa Ile Phe Pro Lys Asp Asp Pro Ser Lys Pro Val His Leu
         35   40   45

Thr Ser Phe Leu Gly Tyr Lys Ala Gly Met Thr His Ile Val Xaa Glu
     50   55   60

Val Asp Arg Pro Gly Ser Xaa Val Asn Xaa Lys Glu Val Val Glu Ala
 65   70   75   80

Val Thr Ile Val Glu Thr Pro Pro Met Val Val Val Gly Ile Val Xaa
                85   90   95

Xaa Met Lys Thr Pro Arg Xaa Leu Arg Thr Phe Xaa Thr Val Phe Ala
            100   105   110

Xaa His Ile Ser Asp Glu Cys Xaa Arg Arg Phe Tyr Xaa Asn Trp Xaa
         115   120   125

Ser Ser Asn Asn Xaa Ala Phe Thr Xaa Tyr Cys Xaa Lys Xaa Gln Asp
     130   135   140

Xaa Asp Xaa Xaa Lys Xaa Leu Gly Glu Xaa Leu Gln Gln His Glu Lys
145   150   155   160

Ile Cys Pro Val Ile Arg Val Ile Ala His Xaa Gln Asp Ser Pro Ala
                165   170   175

5798

Ser Ser Ala Pro Xaa Lys Lys Ala Thr
                180   185

<210> 6550
<211> 39
<212> PRT
<213> Homo sapiens

<220>
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  1   5   10   15

Gln Leu Xaa Phe Gly Glu Arg Pro Ala Xaa Lys Met Ile Gly Xaa Asn
            20   25   30

Ser Pro Leu Leu Val Gly Leu
            35

<210> 6551
<211> 33
<212> PRT
<213> Homo sapiens

<220>
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<400> 6551
Gly Ile Pro Lys Ala Asp Ile Thr Trp Glu Leu Pro Asp Lys Xaa His
 1   5   10   15

Leu Lys Ala Xaa Val Gln Ala Arg Xaa Tyr Gly Asn Xaa Phe Leu Xaa
              20   25   30

Pro

<210> 6552
<211> 82
<212> PRT
<213> Homo sapiens

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5800

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<400> 6552
Cys Val Phe Gln Gln Ile Tyr His Asn Tyr Leu Met Cys Ile Ser Xaa
 1   5   10   15

Xaa Tyr His Asn Tyr Val Met Cys Ile Ser Thr Ile Cys His Ser Xaa
            20   25   30

Leu Ile Cys Xaa Ser Lys Xaa His Ala Val Leu Ala Leu His Xaa Asn
        35   40   45

Xaa Glu Thr Ile Arg Asn His His Thr Xaa Glu Thr Leu Xaa Xaa Gln
    50   55   60

5801

```
Cys Xaa Ile Ile Ser Glu Arg Lys Leu Leu Phe Cys His Leu Tyr Ile
65                  70              75                  80

Phe Met
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<210> 6553
<211> 130
<212> PRT
<213> Homo sapiens

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<400> 6553
Asn Pro Thr Ser Leu Leu Gly Xaa Phe Gly Tyr Arg Pro Pro Pro Ala
  1               5               10                  15

Val Phe Trp Arg Ala Ala Ala Ile Gly Pro Tyr Ala Thr Leu Met Pro
            20              25                  30

Val Gly Leu Gln Gln Gly Pro Gln Ser Asp Gln Glu Leu Glu Gln Ala
            35              40                  45

Pro Gly Thr Ala Arg Arg Arg Gly Arg Leu Thr Lys His Thr Lys Phe
    50              55                  60

Val Arg Asp Met Ile Arg Glu Val Cys Gly Phe Ala Pro Tyr Glu Arg
65                  70              75                  80

Arg Ala Met Glu Leu Leu Lys Val Ser Lys Asp Lys Arg Ala Leu Lys
                85              90                  95

Phe Ile Lys Lys Arg Val Gly Thr His Ile Arg Ala Lys Arg Lys Arg
            100             105                 110

Glu Glu Leu Ser Asn Val Leu Ala Ala Met Arg Lys Ala Ala Ala Lys
            115             120                 125

Lys Asp
    130
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<210> 6554
<211> 79
<212> PRT
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5802

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<213> Homo sapiens

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5803

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Ser Arg Arg Ser Xaa Leu Gly Ala Ala Xaa Xaa Gln Ser Val Glu Glu
 1               5                  10                  15

Arg Ala Xaa Glu Xaa Pro Ser Cys Leu Gly Thr Leu Arg Xaa Val Ser
            20                  25                  30

Ala Val Trp Xaa Thr Asn Arg Phe Xaa Xaa Leu Xaa Asn Asp Val Ser
            35                  40                  45

Asp Pro Phe Glu Gly Ala Glu Gly Ser Gln Arg Thr Xaa Lys Lys Lys
    50                  55                  60

Pro Gly Gly Xaa Arg Arg Leu Xaa Ala Leu Xaa Ser Ser Cys Ala
65                  70                  75


<210> 6555
<211> 69
<212> PRT
<213> Homo sapiens

<400> 6555
Ser Leu Asp Arg Val Ser Val Pro Met Trp Gly Thr Phe Leu Ser Glu
 1               5                  10                  15

Pro Leu Ser Ile Glu Gly Leu Val Gly Arg Tyr Leu Thr Asn Asn Leu
            20                  25                  30
```

5804

Met Glu Arg Ile Pro Ile Leu Tyr Arg Asn Pro Leu Ile Ile Arg Pro
          35   40   45

Cys Gly Met Ile Ile Pro Ser Gly Ile Asn Leu Ser Phe Glu Arg Leu
     50   55   60

Ser Pro Ser Lys Gly
 65

<210> 6556
<211> 178
<212> PRT
<213> Homo sapiens

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6556
Ile Thr Met Asp Trp Gln Ser Ile Lys Ile Gln Glu Leu Met Ser Asp
   1   5   10   15

Asp Gln Arg Glu Ala Gly Arg Ile Pro Arg Thr Ile Glu Cys Glu Leu
            20   25   30

Val His Asp Leu Val Asp Ser Cys Val Pro Gly Asp Thr Val Thr Ile
          35   40   45

5805

```
Thr Gly Ile Val Lys Val Ser Asn Ala Glu Glu Gly Ser Arg Asn Lys
    50          55              60

Asn Asp Lys Cys Met Phe Leu Leu Tyr Ile Glu Ala Asn Ser Ile Ser
65          70              75                      80

Asn Ser Lys Gly Gln Lys Thr Lys Ser Ser Glu Asp Gly Cys Lys His
                85              90                  95

Gly Met Leu Met Glu Phe Ser Leu Lys Asp Leu Tyr Ala Ile Gln Glu
            100             105             110

Ile Gln Ala Glu Glu Asn Leu Phe Lys Leu Ile Val Asn Ser Leu Cys
        115             120             125

Pro Val Ile Phe Gly His Glu Ala Ala Cys Asn Val Ala Pro Arg Gly
    130             135             140

Val Tyr Xaa Cys Gly Asn Thr Thr Thr Thr Phe Gly Leu Thr Val Thr
145             150             155             160

Leu Ser Lys Asp Xaa Xaa Xaa Gly Xaa Phe Ala Phe Gly Thr Trp Cys
                165             170             175

Pro Trp
```

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<210> 6557
<211> 69
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
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5806

<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (66)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (69)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6557
Arg Ser Met Thr Val Glu Pro Asn Pro Phe Gln Arg Lys Val Leu Xaa
 1   5   10   15

Lys Gly Phe Glu Pro Ala Asp Asn Lys Xaa Leu Leu Arg Ala Thr Asp
            20   25   30

Gly Lys Lys Lys Ile Ser Thr Val Val Ser Ser Lys Glu Val Asn Lys
         35   40   45

Phe Gln Xaa Ala Tyr Ser Asn Leu Leu Arg Ala Asn Met Asp Gly Xaa
    50   55   60

Lys Xaa Arg Asp Xaa
 65

<210> 6558
<211> 24
<212> PRT
<213> Homo sapiens

<400> 6558
His Ile Pro Ser Pro Ala Lys Lys Val Pro Arg Leu Pro Ala Thr Ala
 1   5   10   15

Ala Glu Pro Glu Ser Ser Cys His
            20

<210> 6559
<211> 178
<212> PRT
<213> Homo sapiens

<220>

5807

```
<221> SITE
<222> (145)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (151)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (173)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (176)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (177)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6559
Trp Arg Leu Met Ser Arg Phe Asn Ala Phe Lys Arg Thr Asn Thr Ile
  1           5                   10                  15

Leu His His Leu Arg Met Ser Lys His Thr Asp Ala Ala Glu Glu Val
             20                  25                  30

Leu Leu Glu Lys Lys Gly Cys Ala Gly Val Ile Thr Leu Asn Arg Pro
             35                  40                  45

Lys Phe Leu Asn Ala Leu Thr Leu Asn Met Ile Arg Gln Ile Tyr Pro
     50                  55                  60

Gln Leu Lys Lys Trp Glu Gln Asp Pro Glu Thr Phe Leu Ile Ile Ile
 65                  70                  75                  80

Lys Gly Ala Gly Gly Lys Ala Phe Cys Ala Gly Gly Asp Ile Arg Val
                 85                  90                  95

Ile Ser Glu Ala Glu Lys Ala Lys Gln Lys Ile Ala Pro Val Phe Phe
             100                 105                 110

Arg Glu Glu Tyr Met Leu Asn Asn Ala Val Gly Ser Cys Gln Lys Pro
             115                 120                 125

Tyr Val Ala Leu Ile His Gly Ile Thr Met Gly Gly Gly Val Gly Leu
     130                 135                 140
```

5808

Xaa Val His Gly Gln Phe Xaa Val Ala Thr Glu Lys Val Ser Phe Cys
145   150   155   160

Tyr Ala Arg Asn Cys Asn Arg Thr Gly Pro Leu Met Xaa Gly Gly Xaa
                    165   170   175

Xaa Phe

<210> 6560
<211> 86
<212> PRT
<213> Homo sapiens

<400> 6560
Phe Gly Arg Ala Asp Ser Glu Arg Gln Asn Gln Glu Tyr Gln Arg Leu
    1   5   10   15

Met Asp Ile Lys Ser Arg Leu Glu Gln Glu Ile Ala Ile Tyr Arg Ser
                20   25   30

Leu Leu Glu Gly Gln Glu Asp His Ser Gln Gln Phe Val Cys Leu Gln
            35   40   45

Gly Pro Leu Arg Gln Gln Ala Leu Gly Leu Leu Leu Ser Phe Gly Gly
        50   55   60

Cys Leu Leu Gly Arg Gly Met Gly Arg Lys Gly Pro Leu Pro Pro Ala
    65   70   75   80

Leu Leu Leu Thr Cys Gln
                85

<210> 6561
<211> 165
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (6)

5809

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6561
Thr His Tyr Xaa Gly Xaa Ala Gly Xaa Pro Ala Gly Thr Gly Pro Glu
 1   5   10   15

Phe Pro Gly Arg Pro Xaa Arg Pro Xaa Glu Gln Asn Arg Lys Asp Ala
           20   25   30

Glu Ala Trp Phe Thr Ser Arg Thr Glu Glu Leu Asn Arg Glu Val Ala
           35   40   45

Gly His Thr Glu Gln Leu Gln Met Ser Arg Ser Glu Val Thr Asp Leu
       50   55   60

Arg Arg Thr Leu Gln Gly Leu Glu Ile Glu Leu Gln Ser Gln Leu Ser
65   70   75   80

Met Lys Ala Ala Leu Glu Asp Thr Leu Ala Glu Thr Glu Ala Arg Phe
               85   90   95

Gly Ala Gln Leu Ala His Ile Gln Ala Leu Ile Ser Gly Ile Glu Ala
           100   105   110

Gln Leu Gly Asp Val Arg Ala Asp Ser Glu Arg Gln Asn Gln Glu Tyr
           115   120   125

Gln Arg Leu Met Asp Ile Lys Ser Arg Leu Glu Gln Glu Ile Ala Thr
           130   135   140

Tyr Arg Ser Leu Leu Glu Gly Gln Glu Asp His Tyr Asn Asn Leu Ser
145   150   155   160

Ala Ser Lys Val Leu
                165

5810

<210> 6562
<211> 180
<212> PRT
<213> Homo sapiens

<220>
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<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (82)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (87)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (89)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6562
Asp Lys Xaa Glu Thr Trp Arg Glu Val Tyr Leu Gln Asp Ser Phe Lys
 1   5   10   15

Pro Leu Val Cys Ile Ser Pro Asn Ala Ser Leu Phe Asp Ala Val Ser
            20   25   30

Ser Leu Ile Arg Asn Lys Ile His Arg Leu Pro Val Ile Asp Pro Glu
        35   40   45

Ser Gly Asn Thr Leu Tyr Ile Leu Thr His Lys Arg Ile Leu Lys Phe
    50   55   60

Leu Lys Leu Phe Ile Thr Glu Phe Pro Lys Pro Glu Phe Met Ser Lys
65   70   75   80

Ser Xaa Glu Lys Leu Pro Xaa Trp Xaa Leu Cys Gln Tyr Cys Tyr Gly
                85   90   95

Ser Thr Thr Thr Pro Val Tyr Val Ala Leu Gly Ile Phe Val Gln His
            100   105   110

Arg Val Ser Ala Leu Pro Val Val Asp Glu Lys Gly Arg Val Val Asp
        115   120   125

5811

```
Ile Tyr Ser Lys Phe Asp Val Ile Asn Leu Ala Ala Glu Lys Thr Tyr
    130             135             140

Asn Asn Leu Asp Val Ser Val Thr Lys Ala Leu Gln His Arg Ser His
145             150             155             160

Tyr Phe Glu Gly Val Leu Lys Cys Tyr Leu His Glu Thr Trp Arg Pro
            165             170             175

Ser Leu Thr Gly
            180
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<210> 6563
<211> 65
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (43)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6563
Asn Ser Ala Xaa Val Ala Arg Thr Ile Gly Ile Ser Val Asp Pro Arg
    1           5               10              15

Arg Arg Asn Lys Ser Thr Glu Ser Xaa Gln Ala Asn Val Gln Xaa Leu
            20              25              30
```

5812

```
Lys Glu Tyr Arg Ser Lys Leu Ile Leu Phe Xaa Arg Xaa Pro Ser Ala
        35                  40                  45

Pro Lys Lys Gly Asp Ser Ser Ala Glu Glu Leu Arg Thr Gly Pro Pro
    50                  55                  60

Ser
 65
```

```
<210> 6564
<211> 78
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids
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5813

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<220>
<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (40)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (50)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (55)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (67)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (74)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (77)
<223> Xaa equals any of the naturally occurring L-amino acids
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5814

<400> 6564
His Arg Asn His Leu Gly Xaa Xaa His Gly Lys Ile Ser Ser Gly Gly
1　　　　　　　5　　　　　　　　　　10　　　　　　　　　　15

Xaa Ser His Thr Xaa Xaa Ile Pro Met Xaa Leu Val Val Phe Xaa Pro
　　　　　　　20　　　　　　　　25　　　　　　　　　　30

Xaa Leu Cys Xaa Lys Met Gly Xaa Pro Tyr Cys Ile Ile Lys Gly Lys
　　　　　35　　　　　　　　40　　　　　　　　45

Xaa Xaa Leu Ala Thr Tyr Xaa Ser Thr Gly Ser Xaa Cys Thr Ile Val
　　　50　　　　　　　　55　　　　　　　　60

Arg Leu Xaa Thr Gly Val Leu Gly Thr Xaa Lys Gly Xaa Phe
65　　　　　　　70　　　　　　　　75

<210> 6565
<211> 58
<212> PRT
<213> Homo sapiens

<400> 6565
Arg Thr Ala Val Met Pro Arg Glu Asp Arg Ala Thr Trp Lys Ser Asn
1　　　　　　　5　　　　　　　　　　10　　　　　　　　　　15

Tyr Phe Leu Lys Ile Ile Gln Leu Leu Asp Asp Tyr Pro Lys Cys Phe
　　　　　　　20　　　　　　　　25　　　　　　　　　　30

Ile Val Gly Ala Asp Asn Val Gly Ser Lys Gln Met Gln Gln Ile Pro
　　　　　35　　　　　　　　40　　　　　　　　45

His Val Pro Ser Arg Glu Gly Leu Trp Cys
　　　50　　　　　　　　55

<210> 6566
<211> 104
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (53)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (62)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (66)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (68)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (70)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (85)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (88)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (90)
<223> Xaa equals any of the naturally occurring L-amino acids

```
<400> 6566
Asn Thr Val Leu Ser Gly Gly Thr Thr Met Tyr Pro Gly Ile Ala Asp
 1               5                   10                  15

Arg Met Gln Xaa Glu Ile Thr Ala Leu Ala Pro Ser Thr Met Lys Ile
            20                  25                  30

Lys Ile Ile Ala Pro Pro Xaa Arg Lys Phe Ser Val Trp Asp Arg Xaa
        35                  40                  45

Xaa Pro Ser Trp Xaa Arg Cys Pro Pro Ser Asn Arg Phe Xaa Ser Ala
    50                  55                  60

Ser Xaa Asn Xaa Glu Xaa Ile Pro Gly Pro Ser His Pro Ser Thr Arg
 65             70                  75                  80

Lys Leu Leu Pro Xaa Gly Gly Xaa Asn Xaa Leu Ile Leu Arg Leu Gln
                85              90                  95

Pro Phe Ser Phe Glu Lys Lys Pro
            100
```

```
<210> 6567
<211> 67
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (58)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (59)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6567
```

5817

```
Cys Asp Pro Pro Ala Lys Gly Cys Gln Gly Leu Phe His Tyr Gly Leu
 1               5               10              15

Cys Val Leu Pro Phe Arg His Leu Arg Asn Ser Ser His Ala Gly Ala
            20              25              30

Phe Val Ile Val Thr Glu Glu Ala Ile Ala Lys Gly Ile Arg Arg Asn
            35              40              45

Cys Gly Xaa Ser Gln Val Pro Arg Pro Xaa Xaa Gly Glu Pro Gly Xaa
        50              55              60

Ser Leu Gly
 65
```

```
<210> 6568
<211> 111
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (86)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (106)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (107)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (110)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6568
Pro Xaa Gln Lys Gly Asp Thr Gly Glu Pro Gly Leu Pro Gly Thr Lys
 1               5               10              15
```

5818

```
Gly Thr Arg Gly Pro Pro Gly Ala Ser Gly Tyr Pro Gly Asn Pro Gly
              20                  25                  30

Leu Pro Gly Ile Pro Gly Gln Asp Gly Pro Pro Gly Pro Pro Gly Ile
              35                  40                  45

Pro Gly Cys Asn Gly Thr Lys Gly Glu Arg Gly Pro Leu Gly Pro Pro
          50                  55                  60

Gly Leu Pro Gly Phe Ala Gly Asn Pro Gly Pro Pro Gly Leu Pro Gly
65                  70                  75                  80

Met Lys Gly Asp Pro Xaa Glu Ile Leu Gly His Val Pro Gly Met Leu
                  85                  90                  95

Leu Lys Gly Glu Arg Arg Phe Pro Glu Xaa Xaa Gly Leu Xaa Ala
              100                 105                 110
```

<210> 6569
<211> 90
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (80)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (86)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (89)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (90)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6569
```
Ala Ser Gly Asn Val Lys Lys Ala Leu Lys Leu Met Gly Ser Asn Glu
  1               5                  10                  15

Gly Glu Phe Lys Ala Glu Gly Asn Ser Lys Phe Thr Tyr Thr Val Leu
              20                  25                  30
```

```
Glu Asp Gly Cys Thr Lys His Thr Gly Glu Trp Ser Lys Thr Val Phe
        35              40              45

Glu Tyr Arg Thr Arg Lys Ala Val Arg Leu Pro Ile Val Asp Ile Ala
    50              55              60

Pro Tyr Asp Ile Gly Gly Pro Asp Gln Glu Phe Gly Val Asp Val Xaa
65              70              75              80

Pro Asp Ser Leu Tyr Xaa Pro Asn Xaa Xaa
            85              90
```

<210> 6570
<211> 78
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (43)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (58)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (65)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (70)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

5820

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<221> SITE
<222> (72)
<223> Xaa equals any of the naturally occurring L-amino acids


<400> 6570
Trp Ala Tyr Leu Phe Gln Ala Ala Gly Ala Xaa Tyr Val Val Leu Thr
 1               5                  10                  15


Thr Lys His His Glu Gly Phe Thr Asn Trp Xaa Ser Pro Val Ser Trp
            20                  25                  30


Asn Trp Asn Ser Lys Asp Val Gly Pro His Xaa Asp Leu Val Gly Glu
        35                  40                  45


Leu Gly Thr Ala Leu Arg Lys Arg Asn Xaa Arg Tyr Gly Leu Tyr His
    50                  55                  60


Xaa Leu Leu Glu Trp Xaa His Xaa Leu Tyr Leu Leu Asp Lys
65                  70                  75




<210> 6571
<211> 153
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (102)
<223> Xaa equals any of the naturally occurring L-amino acids


<220>
<221> SITE
<222> (104)
<223> Xaa equals any of the naturally occurring L-amino acids


<220>
<221> SITE
<222> (112)
<223> Xaa equals any of the naturally occurring L-amino acids


<220>
<221> SITE
<222> (129)
<223> Xaa equals any of the naturally occurring L-amino acids


<220>
<221> SITE
<222> (139)
<223> Xaa equals any of the naturally occurring L-amino acids
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```
<400> 6571
Asp Met Arg Pro Leu Ser Asn Lys Ala Ser Ala Leu Val Phe Phe Ser
  1               5                  10                  15


Cys Arg Thr Asp Met Pro Tyr Arg Tyr His Ser Ser Leu Gly Gln Leu
              20                  25                  30


Asn Phe Thr Gly Ser Val Ile Tyr Glu Ala Gln Asp Val Tyr Ser Gly
          35                  40                  45


Asp Ile Ile Ser Gly Leu Arg Asp Glu Thr Asn Phe Thr Val Ile Ile
      50                  55                  60


Asn Pro Ser Gly Val Val Met Trp Tyr Leu Tyr Pro Ile Lys Asn Trp
 65                  70                  75                  80


Arg Cys Pro Ser Ser Glu Glu Leu Gly His Val Thr Gly Cys Gly Gly
                  85                  90                  95


Thr Thr Glu Pro Arg Xaa Trp Xaa Leu Gly Met Pro Arg Ala Ser Xaa
              100                 105                 110


Glu Val Leu Cys Ser Pro Gly Cys Ser Val Thr Asp Pro Ser Ser Gln
          115                 120                 125


Xaa His Leu Thr Ala Ser Leu Ser Phe Gln Xaa Lys Pro Leu Glu Ile
    130                 135                 140


Phe Gly His Phe Leu Trp Leu Leu Ala
145                 150


<210> 6572
<211> 86
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
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5822

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<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (73)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6572
Pro Asn His Ser Xaa Tyr Arg Ala Ile Gly Val Ser Lys Xaa Cys Leu
 1               5                  10                  15

Ser Gly Ile Asp Val Arg Tyr Leu His Phe Leu Glu Gly Thr Arg Asp
              20                  25                  30

Tyr Asp Trp Leu Glu Pro Leu Leu Xaa Asn Gln Thr Val Met Ser Ile
          35                  40                  45

Xaa Leu Phe Trp Phe Arg His Arg Pro Gln Glu Ser Phe Ser Gly Ser
      50                  55                  60

Pro Ala His Arg Gln Val Pro Val Xaa Ala Pro Arg Leu Ser Pro Ile
 65                  70                  75                  80

His Glu Gln Gln Val Thr
                  85
```

```
<210> 6573
<211> 80
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6573
Tyr Ile Gln Ser His Tyr Gln Leu Glu Leu Gln Cys Cys Ile Asp Trp
 1               5                  10                  15

Thr His Val Thr Asp Pro Leu His Arg Xaa Gln Lys Leu Gln Glu Glu
              20                  25                  30
```

5823

```
Lys His Lys Ser Ile Thr Glu Ala Leu Arg Arg Gln Glu Gln Asn Ile
        35                  40                  45

Lys Ser Phe Glu Glu Thr Tyr Asp Arg Lys Leu Lys Asn Glu Leu Leu
        50                  55                  60

Asn Phe His Arg Leu His Gly Val Cys Leu Ala Leu Gly Ile Leu Ile
65                  70                  75                  80
```

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<210> 6574
<211> 126
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (66)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (75)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (96)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (120)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6574
Tyr Ala Leu Arg Arg His Lys Leu Met Ser Leu Ile Gln Lys Glu Ala
  1             5                  10                  15

Gln Gly Gln Ser Gly Thr Asp Gln Thr Val Gly Val Leu Ser Asn Pro
                20                  25                  30

Thr Tyr Tyr Met Ser Asn Asp Ile Pro Tyr Thr Phe His Gln Asp Asn
            35                  40                  45

Asn Phe Leu Tyr Leu Cys Gly Phe Gln Glu Pro Asp Ser Ile Leu Val
        50                  55                  60
```

5824

```
Leu Xaa Ser Leu Pro Gly Lys Gln Leu Pro Xaa His Lys Ala Ile Leu
65                  70              75                  80

Phe Val Pro Arg Arg Asp Pro Ser Arg Glu Leu Trp Asp Gly Pro Xaa
                85                  90                  95

Ser Gly Thr Asp Gly Ala Ile Ser Ser Asn Trp Ser Arg Arg Ser Leu
                100             105             110

Tyr Ala Arg Arg Ile Ser Thr Xaa Cys Thr Lys Asn Glu Ser
        115             120             125
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<210> 6575
<211> 145
<212> PRT
<213> Homo sapiens

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6575
Gly Lys Phe Cys Val Gln Ser Glu Arg Gln Asp Ser Ala Ala Val Gly
1               5               10                  15

Phe Asp Tyr Lys Glu Lys Leu Ala Lys His Glu Ser Gln Gln Asp Tyr
            20              25                  30

Ser Lys Gly Phe Gly Gly Lys Tyr Gly Val Gln Lys Asp Arg Met Asp
            35              40              45

Lys Asn Ala Ser Thr Phe Glu Asp Val Thr Gln Val Ser Ser Ala Tyr
```

5825

```
              50                      55                      60

Gln Lys Thr Val Pro Val Glu Ala Val Thr Ser Lys Thr Ser Asn Ile
 65                      70                      75                      80

Arg Ala Asn Phe Glu Asn Leu Ala Lys Glu Lys Glu Gln Glu Asp Arg
                85                      90                      95

Arg Lys Ala Xaa Ala Glu Arg Ala Gln Arg Met Ala Lys Glu Arg Gln
                100                     105                     110

Glu Gln Glu Glu Ala Arg Lys Lys Leu Gly Xaa Thr Ser Gln Ser Gln
                115                     120                     125

Asn Ala Asn Ala Pro Cys Val Xaa Arg Thr Leu Ser Gln Pro Xaa Glu
                130                     135                     140

Lys
145
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```
<210> 6576
<211> 76
<212> PRT
<213> Homo sapiens

<400> 6576
Gly Gln Cys Cys Gln Glu Leu Arg Thr Ser Leu Arg Asn Val Thr Leu
 1                       5                      10                      15

His Cys Thr Asp Gly Ser Ser Arg Ala Phe Ser Tyr Thr Glu Val Glu
                20                      25                      30

Glu Cys Gly Cys Met Gly Arg Arg Cys Pro Ala Pro Gly Asp Thr Gln
                35                      40                      45

His Ser Glu Glu Ala Glu Pro Glu Pro Ser Gln Glu Ala Glu Ser Gly
        50                      55                      60

Ser Trp Glu Arg Gly Val Pro Val Ser Pro Met His
 65                      70                      75
```

```
<210> 6577
<211> 39
<212> PRT
<213> Homo sapiens

<400> 6577
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5826

```
Leu Asp Asp Trp Gly Glu Thr Cys Lys Gly Cys Ala Glu Lys Ser Asp
1               5               10                  15

Tyr Ile Arg Lys Ile Asn Glu Leu Met Pro Lys Tyr Ala Pro Lys Ala
            20              25                  30

Ala Ser Ala Arg Thr Asp Leu
            35
```

```
<210> 6578
<211> 77
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6578
Glu Phe Gly Arg Gly Ile Asn Leu Glu Thr Pro Ser Met Val Ala Gly
1               5               10                  15

Met Glu Phe Ile Lys Val Gly Arg Ala Trp Glu Asp Gly Lys Val Gly
            20              25                  30

Ser Ala Cys Pro Gly Ile Phe Arg Trp Pro Gly Val Leu Pro Xaa Gly
            35              40                  45

Arg Val Ile Gly Glu Pro Thr Glu Ser Asp Gly Arg Val Pro His Arg
    50              55                  60

Gly Pro Ala Gly Gly Arg Arg Gly Cys Pro Arg Thr Glu
65              70                  75
```

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<210> 6579
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<212> PRT
<213> Homo sapiens

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5827

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<400> 6579
Lys Met Pro Lys Ser Leu Lys Xaa Xaa Gln Thr Glu Xaa Leu Xaa Asn
 1               5                  10                  15
```

5828

```
Ala Leu Leu Gln Gly Xaa Pro Val Xaa Xaa Gly Arg Cys Xaa Arg Gln
            20              25                  30

Pro Leu Thr Arg Cys Ile Ala Thr Ala Ser Gly Ser Lys Leu Lys Gly
            35              40                  45

Gln Pro Val Arg Ile Xaa Pro Gly Lys Ser Asp Xaa Arg His Gln Pro
    50              55                  60

Gly Gly Ser Met Arg Thr Gly Pro Thr Glu Ser Leu Ile Gln Gly Leu
65              70                  75                  80

His Gln Ser Val Phe Arg Ala Xaa Lys Arg Ile Gly Leu Val Leu Phe
            85                  90                  95

Gly Lys Gly Asn Thr Gly Phe Pro Leu Ala Gly Thr Val Arg Pro
            100             105             110
```

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<210> 6580
<211> 131
<212> PRT
<213> Homo sapiens

<220>
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<220>
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<223> Xaa equals any of the naturally occurring L-amino acids
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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6580
Leu Thr Tyr Val Arg Pro Lys Gly Leu Ile Ser Met Xaa Glu Ser Arg
 1   5   10   15

Ser Cys Asp Gly His Leu Gly Asn Phe Leu Gly Ala Arg Ser Pro Asp
            20   25   30

5830

```
Glu Thr Ile Phe Cys Asn Asp Xaa Pro Leu His Leu Leu His Xaa Trp
        35                  40                  45

Ser Pro Asp Ile Ile Pro Xaa Leu Val Ser Cys Arg Phe Thr Lys Glu
    50                  55                  60

Thr Thr Xaa Lys Asn Phe Asn Xaa Xaa Tyr Gly Thr Lys Gly Asn Tyr
65                  70                  75                  80

Thr Ser Xaa Xaa Trp Glu Tyr Ser Xaa Ser Ile Gln Asn Ser Asp Asn
            85                  90                  95

Asp Leu Pro Val Phe Gln Gly Ile Ser Ser Phe Ser Leu Lys Gly Tyr
            100                 105                 110

Xaa Xaa Leu Met Arg Ser Xaa Ser Xaa Lys Ala Gln Pro Gln Thr Trp
        115                 120                 125

Lys Ser Gly
    130
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```
<210> 6581
<211> 77
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (4)
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (65)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6581
Leu Ala Phe Xaa Xaa Ile Lys Leu Gly Arg Tyr Ser Gly Leu Xaa His
```

5831

```
    1               5                    10                      15

Gly Val Ala Tyr Gly Ala Thr Arg Tyr Asn Tyr Leu Lys Pro Arg Ala
                20                   25                   30

Glu Glu Glu Arg Arg Ile Ala Ala Glu Glu Lys Lys Lys Gln Asp Glu
                35                   40                   45

Leu Lys Arg Ile Ala Arg Glu Leu Ala Glu Asp Asp Ser Ile Leu Lys
        50                   55                   60

Xaa Val Thr Leu Arg Pro Thr Pro Trp Thr Ser Ser Gly
65                   70                   75
```

<210> 6582
<211> 58
<212> PRT
<213> Homo sapiens

<400> 6582
```
Pro Arg Lys Leu Lys Gln Thr Leu Arg Thr Lys Met Asn Glu Asn Leu
    1               5                    10                      15

Phe Ala Ser Phe Ile Ala Pro Thr Ile Leu Gly Leu Pro Ala Ala Val
                20                   25                   30

Leu Ile Ile Leu Phe Pro Pro Leu Leu Ile Pro Thr Ser Lys Tyr Leu
            35                   40                   45

Ile Asn Asn Arg Leu Ile Thr Thr Gln Gln
        50                   55
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<210> 6583
<211> 118
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (58)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (67)
<223> Xaa equals any of the naturally occurring L-amino acids

5832

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<222> (71)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (109)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (118)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6583
Ala Gly Ala Val Ile Ile Gly Phe Arg Ser Lys Ile Lys Asn Ala Leu
 1   5   10   15

Ala His Phe Leu Pro Gln Gly Thr Pro Thr Pro Leu Ile Pro Ile Leu
             20   25   30

Val Ile Ile Glu Thr Ile Ser Leu Leu Ile Gln Pro Ile Ala Leu Ala
             35   40   45

Val Arg Leu Thr Ala Tyr Ile Thr Ala Xaa His Leu Leu Met His Leu
     50   55   60

Ile Gly Xaa Ala Thr Leu Xaa Ile Ser Thr Ile Asn Leu Pro Ser Thr
 65   70   75   80

Leu Ile Ile Phe Thr Ile Leu Ile Leu Leu Thr Ile Leu Glu Ile Ala
                 85   90   95

Val Ala Leu Ile Gln Ser Leu Arg Phe Pro His Phe Xaa Leu Ser Leu
             100   105   110

Leu Pro Ala Gln Gln Xaa
         115

<210> 6584
<211> 84
<212> PRT
<213> Homo sapiens

<400> 6584
Ile Gly Val Thr Ala Val Ala Phe Asn Lys Glu Leu Asp Pro Ile Gln
 1   5   10   15

5833

Lys Leu Phe Val Asp Lys Ile Arg Glu Tyr Lys Ser Lys Arg Gln Thr
              20   25   30

Ser Gly Gly Pro Val Asp Ala Ser Ser Glu Tyr Gln Gln Glu Leu Glu
           35   40   45

Arg Glu Leu Phe Lys Leu Lys Gln Met Phe Gly Asn Ala Asp Met Asn
      50   55   60

Thr Phe Pro Thr Phe Lys Phe Glu Asp Pro Lys Phe Glu Val Ile Glu
   65   70   75   80

Lys Pro Gln Ala

<210> 6585
<211> 74
<212> PRT
<213> Homo sapiens

<220>
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<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

5834

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<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (43)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (57)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (67)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6585
Xaa Gly Ala Val Ile Ile Xaa Phe Arg Ser Lys Ile Lys Xaa Ala Leu
 1               5                  10                  15

Ala His Phe Leu Ser Lys Xaa Thr Pro Thr Pro Leu Ile Pro Ile Leu
             20                  25                  30

Val Ile Met Xaa Asn Xaa Ile Leu Leu Xaa Xaa Pro Ile Ala Leu Gly
             35                  40                  45

Val Ser Leu Ile Ala Tyr Ile Thr Xaa Gly His Xaa Leu Met His Leu
         50                  55                  60

Ile Gly Xaa Val Pro Tyr Asn Ile Asn His
 65                  70



<210> 6586
<211> 92
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
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5835

<222> (76)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6586
Arg Glu Ala Phe Gln Ser Val Val Leu Pro Ala Phe Glu Lys Ser Cys
 1   5   10   15

Gln Ala Met Phe Gln Gln Ile Asn Asp Ser Phe Arg Leu Gly Thr Gln
            20   25   30

Glu Tyr Leu Gln Gln Leu Glu Ser His Met Lys Ser Arg Lys Ala Arg
         35   40   45

Glu Gln Glu Ala Arg Glu Pro Val Leu Ala Gln Gln Ala His Ile Leu
    50   55   60

Gln Leu Leu Gln Gln Gly His Leu Asn Gln Ala Xaa Gln Gln Ala Leu
 65   70   75   80

Thr Ala Ala Asp Leu Asn Leu Val Leu Val Cys Val
            85   90

<210> 6587
<211> 81
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (68)
<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (78)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (79)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6587
Ala Val Leu Ala Leu Leu Ser Leu Ser Gly Leu Glu Ala Ile Gln Arg
 1   5   10   15

Thr Pro Lys Ile Gln Val Tyr Ser Arg His Pro Ala Glu Asn Gly Lys
            20   25   30

5836

```
Ser Asn Phe Leu Asn Cys Tyr Val Ser Gly Phe His Pro Ser Asp Ile
        35                  40                  45

Glu Val Asp Leu Leu Lys Asn Gly Glu Arg Ile Glu Lys Ser Gly Ala
        50                  55                  60

Phe Arg Leu Xaa Phe Gln Gln Gly Leu Val Phe Leu Ser Xaa Xaa Leu
    65                  70                  75                  80

His
```

```
<210> 6588
<211> 154
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (13)
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<220>
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<222> (47)
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<222> (104)
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<220>
<221> SITE
<222> (108)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (150)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6588
Pro Gln Lys Pro Leu Ser Ser Thr Pro Thr Gly Cys Xaa Trp Gly Lys
  1               5                  10                  15

Thr Gln Gly Leu Gln Cys Leu Gly Pro Gly Trp Arg His Leu His Ala
                20                  25                  30
```

5837

Val Pro Thr Ala Pro Pro Ala Leu Arg His Gly Leu Leu Arg Xaa Met
        35   40   45

Cys Leu Pro Trp Thr Arg Arg Leu Gly Tyr Ser Ala Met Pro Gln Ala
    50   55   60

Leu Thr Leu Val Pro Ser Trp Leu Pro Gly Pro Pro Gly Arg Thr Ser
65   70   75   80

Ala Ala Arg Gly Cys Gly Arg Pro Ser Arg Ser Trp Arg Ala Ala Ala
                85   90   95

Glu Ala Gly Gly Pro Gly Gly Xaa Gly Pro Ala Xaa Val Gly Ser Gly
            100   105   110

Ala Gly Gly Arg Arg Pro Ala Val Thr Gly Ala Ala Pro Ala Ser Leu
            115   120   125

Val Pro Asn Ser Cys Ser Pro Gly Asp Pro Leu Val Leu Glu Arg Pro
    130   135   140

Pro Pro Arg Trp Ser Xaa Ser Phe Val Pro
145   150

<210> 6589
<211> 128
<212> PRT
<213> Homo sapiens

<400> 6589
Val Cys Met Ser Tyr Ala Phe His Thr Pro Asp Lys Leu Ser Phe Ile
    1   5   10   15

Leu Asp Leu Met Asn Gly Gly Asp Leu His Tyr His Leu Ser Gln His
            20   25   30

Gly Val Phe Ser Glu Ala Asp Met Arg Phe Tyr Ala Ala Glu Ile Ile
            35   40   45

Leu Gly Leu Glu His Met His Asn Arg Phe Val Val Tyr Arg Asp Leu
    50   55   60

Lys Pro Ala Asn Ile Leu Leu Asp Glu His Gly His Val Arg Ile Ser
65   70   75   80

Asp Leu Gly Leu Ala Cys Asp Phe Ser Arg Arg Ser Pro Met Pro Ala
                85   90   95

Trp Ala Pro Thr Gly Thr Trp Leu Arg Arg Ser Cys Arg Arg Ala Trp

5838

```
            100                 105                 110

Pro Thr Thr Ala Val Pro Thr Gly Ser Leu Trp Gly Ala Cys Ser Ser
        115                 120                 125
```

<210> 6590
<211> 39
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<220>
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<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6590
```
Xaa Pro Thr Pro Val Thr Phe Gly Phe Xaa Pro Ser Phe Phe Ala Thr
  1               5                  10                  15

Phe Ala Gly Phe Pro Arg Gln Ala Xaa Asn Xaa Gly Leu Pro Leu Gly
            20                  25                  30
```

```
Phe Pro Ile Xaa Xaa Phe Thr
        35
```

```
<210> 6591
<211> 77
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6591
Xaa Thr Ile Gly Lys Ala Gly Thr Pro Ala Gly Thr Gly Pro Glu Phe
  1               5                  10                  15

Pro Gly Val Val Thr Arg Xaa Val Thr Ala Thr Leu Ala Ser Ala Leu
            20                  25                  30

Xaa Pro Ala Pro Phe Ala Phe Phe Pro Ser Phe Leu Ala Thr Phe Ala
            35                  40                  45

Gly Phe Pro Arg Gln Ala Leu Asn Arg Gly Leu Pro Leu Gly Phe Arg
        50                  55                  60

Phe Ser Ala Leu Arg His Leu Asp Pro Lys Lys Leu Asp
  65                  70                  75
```

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<210> 6592
<211> 49
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
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<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6592
Ile Ala Ser Gly Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met
  1               5                  10                  15

Arg Arg His Ser Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu Ala
              20                  25                  30

Val Val Leu Gln Arg Arg Asp Trp Glu Xaa Pro Lys Xaa Ala Gln Xaa
          35                  40                  45

Asp
```

```
<210> 6593
<211> 77
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (59)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (77)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6593
Ile Ala Ser Gly Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met
  1               5                  10                  15
```

5841

```
Arg Arg His Ser Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu Ala
            20              25              30

Val Val Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val Thr Gln Leu
            35              40              45

Asn Arg Leu Ala Ala His Pro Pro Phe Ala Xaa Trp Arg Asn Ser Xaa
    50              55              60

Glu Ala Arg Thr Asp Arg Leu Pro Asn Ser Cys Ala Xaa
65              70              75
```

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<210> 6594
<211> 30
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6594
Xaa Thr His Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly
    1           5               10              15

Ile Pro Gly Ser Thr His Ala Ser Ala His Ala Ser Gly Gly
            20              25              30
```

```
<210> 6595
<211> 87
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (63)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (65)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
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5842

<222> (69)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (70)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (72)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6595
Ile Ala Ser Gly Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met
 1   5   10   15

Arg Arg His Ser Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu Ala
             20   25   30

Val Val Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val Thr Gln Leu
             35   40   45

Asn Arg Leu Ala Ala His Pro Pro Phe Ala Ser Trp Arg Asn Xaa Glu
     50   55   60

Xaa Ala Arg Asn Xaa Xaa Pro Xaa Pro Asn Arg Leu Arg Ser Leu Glu
 65   70   75   80

Trp Arg Met Gly Arg Ala Leu
                 85

<210> 6596
<211> 71
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

5843

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<222> (63)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (71)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6596
Lys Lys Lys Lys Arg Ala Ala Ala Leu Glu Asp Pro Ser Leu Arg Thr
 1               5               10                  15

Arg Ala Cys Arg Arg His Xaa Ser Ser Ile Val Ser Pro Lys Phe Asn
            20              25              30

Ser Leu Gly Arg Arg Leu His Val Val Thr Gly Xaa Asn Pro Ala Val
        35              40                  45

Pro Gln Leu Asn Pro Pro Cys Arg Thr Ser Pro Phe Arg Lys Xaa Xaa
    50              55              60

Ile Pro Lys Gly Pro Thr Xaa
 65              70


<210> 6597
<211> 32
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6597
Ser Gly Thr Thr Xaa Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg
 1               5               10                  15

Ser Gly Ile Pro Gly Ser Thr His Ala Ser Gly Leu Trp Ser Gln Cys
            20              25              30
```

5844

```
<210> 6598
<211> 65
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (8)
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<400> 6598
Ala Ser Ser Arg Ser Arg Ala Xaa Xaa Leu Glu Asp Pro Ser Leu Arg
 1               5                   10                  15
```

5845

```
Thr Arg Ala Cys Arg Arg His Ser Xaa Ser Ile Val Ser Pro Lys Phe
            20              25              30

Asn Ser Leu Ala Val Val Leu Gln Arg Xaa Asp Trp Glu Asn Pro Gly
        35              40              45

Xaa Thr Gln Leu Lys Arg Leu Ala Val His Ser Leu Phe Xaa Gln Xaa
    50              55              60

Xaa
 65
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<210> 6599
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Thr Ser Asp Xaa Thr Lys Lys Lys Lys Lys Gly Gly Arg Ser Xaa Gly
 1   5   10   15

Ser Lys Leu Thr Tyr Ala Cys Met Arg Arg His Ser Ser Xaa Ile Val
            20   25   30

Ser Pro Lys Phe Asn Ser Leu Ala Val Val Leu Gln Arg Arg Asp Trp
        35   40   45

Glu Asn Pro Gly Val Thr Gln Leu Asn Arg Leu Ala Ala His Thr Pro
    50   55   60

Phe Ala Ser Trp Arg Asn Ser Glu Glu Ala Arg Thr Asp Arg Pro Xaa
65   70   75   80

Gln Gln Leu Xaa Ser Leu Asn Gly Glu Trp Asp Ala Pro Cys Ser Gly
            85   90   95

Xaa Leu Ser Ala Xaa Gly Val Val Val Thr
            100   105

<210> 6600
<211> 70
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<213> Homo sapiens

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<400> 6600
Xaa Xaa Pro Phe Gly Asn Pro Xaa Gly Thr Thr Xaa Tyr Arg Glu Ser
 1               5                  10                  15

Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala
            20                  25                  30

Ser Ala Asp Ala Trp Ala Asp Ala Trp Ala Asp Ala Trp Val Lys Xaa
        35                  40                  45

Gly Tyr Lys Lys Leu Phe Val Leu Asp Asp Arg Glu Ala His Asn Glu
    50                  55                  60

Val Xaa Pro Leu Xaa Xaa
65                  70




<210> 6601
<211> 69
<212> PRT
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5848

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<400> 6601
Ile Asn Leu Cys Asn Leu Lys Asn Xaa Xaa Glu Gly Gly Arg Ser Arg
  1               5                  10                   15

Gly Ser Lys Leu Thr Tyr Ala Cys Met Arg Arg His Ser Ser Ser Ile
             20              25               30

Val Ser Pro Lys Phe Asn Ser Leu Ala Val Val Leu Gln Arg Arg Asp
         35              40               45

Trp Glu Asn Pro Gly Val Thr Xaa Leu Asn Arg Leu Ala Ala His Xaa
     50              55              60

Pro Phe Xaa Gln Xaa
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<210> 6602
<211> 32
<212> PRT
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5849

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<400> 6602
Leu Xaa Xaa Leu Trp Lys Thr Pro His Tyr Arg Leu Ser Trp Tyr Ala
 1               5                  10                  15

Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Xaa Xaa Ser
            20                  25                  30




<210> 6603
<211> 38
<212> PRT
<213> Homo sapiens

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5850

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<400> 6603
Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His
 1               5                   10                  15

Ala Ser Gly Glu Ser Ser His Tyr Xaa Phe Ser Xaa Gly Xaa Gly Ala
            20                  25                  30

Gly Xaa Phe Lys Ser Phe
        35


<210> 6604
<211> 44
<212> PRT
<213> Homo sapiens

<220>
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<400> 6604
Asn Ser Ser Gly Asn Pro His Tyr Arg Xaa Ser Trp Tyr Ala Cys Arg
 1               5                   10                  15

Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Ala His Ala Ser
            20                  25                  30

Ala His Ala Xaa Glu Lys Xaa Arg Xaa Lys Lys Xaa
```

5851

35   40

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<210> 6605
<211> 43
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<213> Homo sapiens

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<400> 6605
Xaa Ser Pro Ala Ser Tyr Pro Xaa His Tyr Arg Glu Ser Trp Tyr Ala
 1               5                  10                  15

Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Ala Asp
            20                  25                  30
```

5852

```
Ala Trp Val Asp Pro Xaa Ile Xaa Xaa Xaa Xaa
             35                  40
```

<210> 6606
<211> 57
<212> PRT
<213> Homo sapiens

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<400> 6606
```
Tyr Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro
  1               5                  10                  15


Gly Ser Thr His Ala Ser Gly Gln Xaa Xaa Xaa Phe Leu Trp Pro Thr
             20                  25                  30


Ser Glu Pro Val Thr Arg Lys Gly Lys Xaa Gly Arg Xaa Glu Asp Pro
             35                  40                  45


Thr Tyr Glu Xaa Asn Val Tyr Gly Leu
```

5853

50   55

<210> 6607
<211> 51
<212> PRT
<213> Homo sapiens

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6607
Tyr Pro His Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly
  1   5   10   15

Ile Pro Gly Ser Thr His Ala Xaa Ala Glu Arg Glu Thr Ile Ser Ser
              20   25   30

Leu Gln Gly Thr Ile Pro Gly Asn Val Leu Ile His Tyr Gly Ile Lys
              35   40   45

Ala Val Val
      50

<210> 6608
<211> 34
<212> PRT
<213> Homo sapiens

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<400> 6608
Pro Xaa Lys Leu Leu Xaa Asn Thr Pro His Tyr Arg Glu Ser Trp Tyr
  1   5   10   15

Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Gly
              20   25   30

5854

His Phe

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<210> 6609
<211> 48
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<213> Homo sapiens

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<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6609
Ile Ala Ser Gly Arg Ser Arg Arg Ser Lys Leu Thr Tyr Ala Cys Met
 1               5                  10                  15

Arg Arg His Ser Ser Ser Ile Leu Ser Pro Lys Phe Asn Ser Leu Ala
           20              25                  30

Val Xaa Leu Gln Arg Arg Asp Trp Glu Asn Xaa Thr Xaa Xaa Pro Ser
         35                  40                  45
```

```
<210> 6610
<211> 41
<212> PRT
<213> Homo sapiens

<400> 6610
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5855

```
Ile Ala Ser Gly Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met
 1               5                   10                  15

Arg Arg His Ser Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu Ala
            20                  25                  30

Val Val Leu Gln Arg Arg Asp Trp Glu
            35                  40
```

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<210> 6611
<211> 45
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<213> Homo sapiens

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<400> 6611
Ile Ala Ser Gly Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met
 1               5                   10                  15

Arg Arg His Xaa Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu Ala
            20                  25                  30

Val Val Leu Gln Arg Arg Asp Trp Glu Thr Lys Xaa Xaa
            35                  40                  45
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<210> 6612
<211> 47
<212> PRT
<213> Homo sapiens

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5856

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<400> 6612
Ile Ala Ser Gly Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met
 1               5                10                15


Arg Arg His Ser Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu Ala
            20                25                30


Val Val Leu Gln Arg Arg Asp Trp Glu Asn Pro Xaa Arg Xaa Xaa
            35                40                45




<210> 6613
<211> 46
<212> PRT
<213> Homo sapiens

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5857

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<400> 6613
Phe Xaa Ile Xaa Ser Gly Arg Xaa Arg Gly Ser Xaa Leu Xaa Tyr Ala
 1               5                  10                  15

Cys Met Arg Xaa His Ser Ser Xaa Ile Met Ser Pro Lys Phe Asn Ser
            20                  25                  30

Leu Ala Xaa Xaa Leu Gln Arg Arg Asp Trp Glu Asn Glu Cys
            35                  40                  45



<210> 6614
<211> 45
<212> PRT
<213> Homo sapiens

<220>
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<220>
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<400> 6614
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5858

```
Ile Ala Ser Gly Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met
 1               5                   10                  15

Arg Arg His Ser Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu Ala
             20                  25                  30

Val Val Leu Gln Arg Arg Asp Trp Thr Pro Lys Xaa Xaa
             35                  40                  45
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<210> 6615
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<213> Homo sapiens

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<400> 6615
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Asp Tyr Xaa Xaa Ser Asn Thr Ser His Tyr Xaa Glu Ser Trp Tyr Ala
 1               5                   10                  15

Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Ala
             20                  25                  30
```

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<210> 6616
<211> 36
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
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<400> 6616
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5859

```
Gly Gly Gly Val Gly Asn Asp Tyr Ala Leu Ser Asn Thr Xaa His Tyr
 1               5                  10                  15

Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser
            20              25                  30

Thr His Ala Ser
            35
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<210> 6617
<211> 46
<212> PRT
<213> Homo sapiens

<220>
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<400> 6617
```
Leu Arg Xaa Ser Gln Ile Arg Xaa Xaa Ile Gly Xaa Ser Trp Tyr Ala
 1               5                  10                  15

Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Gly Val
```

5860

```
                    20                      25                      30
Leu Val Val Ile Phe Phe Phe Xaa Pro Gly Cys Xaa Leu Phe
             35                      40                      45
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<210> 6618
<211> 45
<212> PRT
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<220>
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<400> 6618
Ile Ala Ser Gly Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met
  1               5                  10                      15

Arg Arg His Ser Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu Ala
             20                      25                      30

Val Val Leu Gln Arg Arg Asp Trp Asp Pro Lys Xaa Xaa
             35                      40                      45
```

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<210> 6619
<211> 45
<212> PRT
<213> Homo sapiens

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5861

<222> (45)
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<400> 6619
Ile Ala Ser Gly Arg Ser Xaa Gly Ser Lys Leu Thr Tyr Ala Cys Met
 1   5   10   15

Arg Arg His Ser Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu Ala
                20   25   30

Val Val Leu Gln Arg Arg Asp Trp Glu Thr Gln Xaa Xaa
                35   40   45

<210> 6620
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<212> PRT
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<400> 6620
Arg Val Gly Thr Lys Thr Ser Arg Gly Xaa Lys Arg Ala Ala Ala Leu
 1   5   10   15

Lys Asp Pro Ser Leu Arg Thr Arg Ala Cys Gly Arg His Ser Ser Ser
                20   25   30

Ile Val Ser Pro Lys Phe Asn Ser Leu Ala Val Val Leu Gln Arg Arg
                35   40   45

Asp Trp Asp Pro Xaa Asn Xaa Xaa Gly

5862

50   55

<210> 6621
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<213> Homo sapiens

<220>
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<220>
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<400> 6621
Met Asp Ile Ser Leu Leu Lys Lys Lys Lys Lys Gly Gly Arg Ser Arg
 1   5   10   15

Gly Ser Lys Leu Thr Tyr Ala Cys Met Arg Arg His Ser Ser Xaa Ile
            20   25   30

Xaa Ser Pro Lys Phe Asn Xaa Leu Ala Arg
         35   40

<210> 6622
<211> 77
<212> PRT
<213> Homo sapiens

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<400> 6622
Ile Xaa Gly Gly Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met
 1   5   10   15

Arg Arg His Ser Ser Ser Ile Xaa Thr Pro Lys Phe Asn Ser Leu Ala
            20   25   30

Val Xaa Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val Thr Gln Leu
        35   40   45

Asn Arg Leu Ala Ala His Pro Xaa Phe Ala Ser Trp Arg Asn Ser Glu
    50   55   60

Glu Ala Arg Thr Asp Arg Leu Ala Asn Arg Cys Ala Xaa
 65   70   75

<210> 6623
<211> 41
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
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<222> (41)

5864

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6623
Arg Ile Gln Ala Tyr Arg Thr Arg Ala Cys Arg Arg His Ser Ser Ser
 1   5   10   15

Ile Val Ser Pro Lys Phe Asn Ser Leu Ala Val Val Leu Gln Arg Arg
                20   25   30

Asp Trp Glu Asn Pro Asp Xaa Xaa Xaa
            35   40

<210> 6624
<211> 35
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
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<220>
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<400> 6624
Leu Arg Gln Ala Leu Ile Arg Leu Thr Ile Xaa Ile Xaa Trp Tyr Ala
 1   5   10   15

Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Ala His
                20   25   30

Ala Ser Val
            35

<210> 6625
<211> 40
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<213> Homo sapiens

<220>
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<220>
<221> SITE
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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6625
Leu Arg Gln Ala Leu Ile Arg Leu Thr Ile Gly Xaa Xaa Trp Tyr Ala
  1   5   10   15

Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Ala Lys
              20   25   30

Ser Asp Arg Ile Val Asn Glu Thr
          35   40

<210> 6626
<211> 36
<212> PRT
<213> Homo sapiens

<220>
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<400> 6626
Leu Arg Gln Ala Leu Ile Arg Leu Thr Ile Xaa Ile Xaa Trp Tyr Ala
  1   5   10   15

Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Glu Tyr
              20   25   30

Leu Leu Leu Glu
          35

<210> 6627
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5866

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<400> 6627
Pro Xaa Leu Arg Gln Ala Leu Ile Arg Leu Thr Ile Gly Xaa Ser Trp
 1               5                  10                  15


Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser
            20                  25                  30

Asp
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<400> 6628
Xaa Lys Gly Asn Xaa Xaa Thr Ala Met Thr Met Ile Thr Pro Ser Ser
 1               5                  10                  15

Asn Thr Thr His Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Xaa
            20                  25                  30

Gly Xaa Pro Gly Ser Thr His Ala Xaa Ala His Ala Ser Xaa Pro Met
        35                  40                  45

Thr Thr Lys Gly Arg Lys Lys Tyr Phe Leu His
        50                  55




<210> 6629
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5868

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<400> 6629
Thr Ile Gly Asn Leu His Arg Ile Thr Ala Met Thr Met Ile Thr Pro
 1               5                  10                  15

Ser Ser Asn Thr Thr His Tyr Xaa Glu Ser Trp Xaa Ala Cys Arg Tyr
            20                  25                  30

Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Asp His Phe Ala His
            35                  40                  45

Xaa Ser Phe Leu Xaa Glu His Ser Lys Lys Met Cys Xaa
        50                  55                  60
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5869

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<400> 6630
Met Gly Xaa Leu Pro Pro Pro Phe Pro Gly Lys Thr Xaa Leu Thr Met
 1               5                   10                  15

Ile Xaa Pro Ser Ser Asn Thr Thr His Tyr Leu Glu Ser Trp Xaa Ala
            20                  25                  30

Cys Arg Xaa Arg Xaa Gly Ile Pro Xaa Ser Xaa His Ala Ser Gly Ser
        35                  40                  45

Arg Glu Glu Ala Xaa Ala Thr Met Glu Asn Lys Xaa Ile Cys Ala Leu
    50                  55                  60

Xaa Leu Xaa Xaa Met Leu Ala Leu Gly Thr Leu Ala
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5870

65   70   75

<210> 6631
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<400> 6631
Xaa Gly Gly Xaa Leu Thr Gly Asn Xaa Asn Asn Phe Thr Gln Glu Thr
 1   5   10   15

Ala Met Thr Met Ile Thr Pro Ser Ser Asn Thr Thr His Tyr Arg Glu
            20   25   30

Ser Trp Tyr Ala Cys Arg Tyr Arg Xaa Gly Ile Pro Gly Ser Thr His
        35   40   45

Ala Ser Ala Trp Xaa Ser Xaa Ile
    50   55

5871

<210> 6632
<211> 44
<212> PRT
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<400> 6632
Tyr Asp Ser Leu Phe Gly Lys Val Trp Tyr Ala Cys Arg Tyr Arg Ser
 1   5   10   15

Gly Ile Pro Gly Ser Thr His Ala Ser Gly Ile Phe Val Lys Asn Ile
            20   25   30

Leu His Tyr Leu Gln Asn Lys Glu Thr Arg Xaa Xaa
          35   40

<210> 6633
<211> 33
<212> PRT
<213> Homo sapiens

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6633
Thr Met Leu Arg Gln Ala Leu Ile Arg Leu Thr Ile Gly Lys Cys Trp
 1   5   10   15

Tyr Val Cys Arg Tyr Arg Xaa Gly Ile Pro Gly Xaa Thr His Ala Ser
            20   25   30

5872

Gly

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<210> 6634
<211> 40
<212> PRT
<213> Homo sapiens

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6634
Val Ser Ile Gly Asn Ser Leu Thr Met Ile Thr Pro Ser Ser Asn Thr
 1               5                  10                  15

Thr His Tyr Arg Glu Xaa Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile
             20                  25                  30

Pro Gly Ser Thr His Ala Ser Gly
         35                  40




<210> 6635
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<212> PRT
<213> Homo sapiens

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<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6635
Arg Glu Tyr Ser Phe Leu Leu Glu Thr Ala Ile Thr Met Ile Thr Pro
 1               5                  10                  15
```

5873

```
Ser Ser Asn Thr Thr His Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr
            20                  25                  30

Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Glu Xaa Xaa Xaa Arg
        35                  40                  45

Thr Leu Lys Asn
        50



<210> 6636
<211> 60
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6636
Thr Val Ser Leu Gly Asn Ser Leu Thr Met Ile Thr Pro Ser Ser Asn
  1             5                  10                  15

Thr Thr His Tyr Arg Glu Xaa Trp Tyr Ala Cys Arg Tyr Arg Ser Gly
            20                  25                  30

Ile Pro Gly Ser Thr His Ala Ser Glu Ser Phe Lys Ser Trp Val Phe
        35                  40                  45

Arg Leu Leu Cys Ser Ser Cys Val Phe Asn Ile Leu
        50              55                  60



<210> 6637
<211> 61
<212> PRT
<213> Homo sapiens

<220>
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<222> (2)
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5874

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<400> 6637
Glu Xaa Pro Xaa Phe Ile Leu Glu Thr Ala Ile Thr Met Ile Thr Pro
 1   5   10   15

Ser Ser Asn Thr Thr His Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr
            20   25   30

Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Gly Pro Xaa Lys Ile
            35   40   45

Arg Lys His Xaa Ser Tyr Ser His Val Glu Xaa Xaa Ala
    50   55   60

<210> 6638
<211> 44
<212> PRT
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5875

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<400> 6638
Ala Xaa Xaa Pro His Phe Xaa Thr Thr His Tyr Arg Glu Xaa Trp Tyr
 1               5               10              15

Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Glu
             20              25              30

Ile Thr Phe Cys Gly His Cys Lys Ile Asn Ile Trp
         35              40


<210> 6639
<211> 77
<212> PRT
<213> Homo sapiens

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6639
Ile Ala Ser Gly Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met
 1               5               10              15

Arg Arg His Ser Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu Ala
             20              25              30

Xaa Val Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val Thr Gln Leu
         35              40              45

Asn Arg Leu Ala Ala His Xaa Pro Phe Ala Ala Gly Val Ile Ala Lys
     50              55              60

Lys Pro Ala Pro Ile Gly Leu Pro Thr Ser Cys Ala Ala
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5876

<210> 6640
<211> 64
<212> PRT
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<400> 6640
Lys Lys Xaa Xaa Xaa Xaa Xaa Lys Lys Lys Gly Gly Arg Ser Xaa Gly
 1   5   10   15

Ser Lys Leu Thr Tyr Ala Cys Met Arg Arg His Xaa Ser Ser Ile Val
            20   25   30

Ala Pro Lys Phe Asn Tyr Trp Pro Arg Phe Thr Thr Ser Asp Trp Glu
        35   40   45

Asn Pro Gly Val Thr Gln Leu Asn Arg Leu Gly Xaa Asn Xaa Leu Leu
    50   55   60

<210> 6641
<211> 72
<212> PRT
<213> Homo sapiens

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<400> 6641
Tyr Ser Tyr Xaa Leu Pro Tyr Xaa Ile Phe Ile Leu Asn Lys Ile Ile
  1               5               10                  15

Trp Arg Phe Leu Pro Gln Xaa Xaa Xaa Xaa Lys Xaa Xaa Xaa Pro Ser
             20              25                  30
```

5879

```
Xaa Lys Gly Gly Arg Xaa Xaa Arg Ser Lys Leu Thr Tyr Ala Cys Met
         35                  40              45

Gln Arg His Asn Ser Ser Ile Val Ser Leu Asn Ser Ile Xaa Trp Ala
    50                  55              60

Val Val Leu Gln Arg Xaa Asp Trp
65                  70


<210> 6642
<211> 38
<212> PRT
<213> Homo sapiens

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<400> 6642
Arg Thr Xaa Phe Trp Asn Thr Xaa Xaa Tyr Arg Glu Ser Trp Tyr Ala
    1               5                  10                  15
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5880

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Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Gly Xaa
            20                  25                  30


Leu Xaa Gly Xaa Gly Leu
        35




<210> 6643
<211> 80
<212> PRT
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5881

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<220>
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<400> 6643
Ile Arg Xaa Xaa Xaa Leu Arg Xaa Asp Thr Thr His Tyr Arg Glu Ser
 1               5                   10                  15

Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Xaa Thr His Ala
            20              25              30

Ser Val Glu Ile Cys Pro Pro Xaa Ser Arg Pro Xaa Ser Ser Gln Ser
        35              40              45

Asn Gly Glu Gly Tyr Ser Xaa Cys Arg Arg Pro Gln Ala Leu Glu Ala
    50              55              60

Ala Thr Tyr Leu Asn Pro Val Pro Xaa Arg Ile Leu Leu Lys Pro Phe
65              70              75              80




<210> 6644
<211> 58
<212> PRT
<213> Homo sapiens

<220>
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5882

<223> Xaa equals any of the naturally occurring L-amino acids

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<400> 6644
Pro Xaa Ala Trp Xaa Leu Xaa Thr Gln Leu Gly Thr Thr His Tyr Arg
 1   5   10   15

Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr
            20   ·   25   30

His Ala Ser Gly Lys Thr Trp Ile Ile Xaa Val Cys Cys Thr Arg Gly
        35   40   45

Ser Xaa Gly Xaa Leu Thr Ala Lys Asn Asp
    50   55

<210> 6645
<211> 44
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
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<220>
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<220>
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<220>
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5883

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6645
Phe Gly Ile Gln Leu Xaa Xaa Xaa Arg Leu Gly Thr Thr His Tyr Arg
 1               5                   10                  15

Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr
            20                  25                  30

His Ala Xaa Asp Xaa Met Xaa Leu Trp Leu Leu Gln
            35                  40


<210> 6646
<211> 59
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
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<220>
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<220>
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<220>
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5884

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6646
Thr Pro Val Gly Thr Thr His Tyr Arg Glu Xaa Trp Tyr Ala Cys Arg
 1           5                   10              15

Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Gly Ala Glu Xaa
            20                  25                  30

Ser Gly Ile Xaa Leu Glu Ala Gly Lys Asn Gln Xaa Val Leu Xaa Cys
        35                  40                  45

Gly Ser Gly Gln Gly Leu Glu Arg Pro Xaa Pro
    50                  55
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<210> 6647
<211> 38
<212> PRT
<213> Homo sapiens

<220>
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<220>
<221> SITE
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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6647
Ile Cys Asn Thr Xaa His Tyr Arg Glu Ser Trp Xaa Ala Cys Arg Tyr
 1           5                   10                  15
```

5885

```
Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Asp Ser Lys Asp Xaa
              20              25              30
```

```
Ser Val Asp Gly Ser Xaa
              35
```

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<210> 6648
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<212> PRT
<213> Homo sapiens
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<220>
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<400> 6648
Pro Ile Phe Xaa Trp Lys His Ala Met Thr Met Ile Thr Pro Ser Ser
  1           5               10              15
```

```
Asn Thr Thr His Tyr Arg Xaa Ser Trp Xaa Ala Cys Arg Tyr Arg Ala
              20              25              30
```

```
Gly Ile Pro Gly Ser Thr His Ala Ser Gly Asp Xaa Xaa
              35              40              45
```

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<210> 6649
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5886

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<211> 92
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<213> Homo sapiens

<220>
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<400> 6649
Tyr Glu Xaa Xaa Lys Leu Leu Arg Glu Ser Xaa Asn Asn Phe Thr Gln
 1               5                  10                  15

Glu Thr Ala Met Thr Met Ile Thr Pro Ser Ser Asn Thr Thr His Tyr
            20                  25                  30

Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser
        35                  40                  45

Thr His Ala Ser Gly Pro Ser Arg Glu Ile Pro Arg Ser Leu His Leu
    50                  55                  60

Val Ile Xaa Thr Glu His Arg Pro Pro Thr Met Glu Leu Gly Leu Ser
65                  70                  75                  80

Trp Ile Xaa Leu Xaa Ala Met Ile Lys Gly Val Asn
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5887

85   90

<210> 6650
<211> 71
<212> PRT
<213> Homo sapiens

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<400> 6650
Leu Pro Xaa Xaa Xaa Asn Thr Thr His Tyr Arg Glu Ser Trp Tyr Ala
 1   5   10   15

Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Glu Lys
          20   25   30

5888

```
Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Xaa Lys Lys
        35                      40                  45

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
     50                      55                  60

Lys Lys Lys Xaa Gly Xaa Xaa
 65              70
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<210> 6651
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5889

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<223> Xaa equals any of the naturally occurring L-amino acids


<400> 6651
Asn Leu Thr Gln Val Ala Ala Met Xaa Met Ile Thr Xaa Xaa Ser Asn
 1               5                  10                  15


Thr Thr His Tyr Arg Glu Ser Xaa Tyr Ala Cys Arg Tyr Arg Ser Gly
            20                  25                  30


Ile Pro Gly Ser Thr His Ala Leu Arg Tyr Cys Gly Pro Xaa Ala His
            35                  40                  45


Arg Phe Thr Ser Pro Pro Cys Xaa Ser Leu Xaa Leu Xaa Met Leu Met
    50                  55                  60




<210> 6652
<211> 52
<212> PRT
<213> Homo sapiens


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<223> Xaa equals any of the naturally occurring L-amino acids


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<220>
<221> SITE
<222> (34)
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<400> 6652
Thr Cys Ser Pro Gly Lys Xaa Xaa Thr Ile Leu His Arg Lys Thr Ala
 1               5                  10                  15
```

5890

```
Met Thr Met Ile Thr Pro Ser Ser Asn Thr Thr His Tyr Arg Glu Ser
          20              25              30

Xaa Xaa Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala
          35              40              45

Ser Gly Gln Ala
    50



<210> 6653
<211> 39
<212> PRT
<213> Homo sapiens

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<220>
<221> SITE
<222> (38)
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<400> 6653
Gln Glu Thr Ala Met Thr Met Ile Thr Pro Ser Ser Asn Thr Thr His
  1           5               10              15

Tyr Arg Asp Cys Trp Xaa Ala Cys Arg Tyr Arg Ala Gly Ile Xaa Gly
          20              25              30

Ser Thr His Ala Ser Xaa Arg
          35



<210> 6654
<211> 62
<212> PRT
<213> Homo sapiens

<220>
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5891

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<222> (61)
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<400> 6654
Leu Leu Asp Asn Thr Leu Thr Gln Xaa Thr Ala Met Thr Met Ile Thr
 1   5   10   15

Pro Ser Ser Asn Thr Thr His Tyr Arg Xaa Xaa Trp Tyr Ala Cys Xaa
            20   25   30

Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Val Xaa Arg Leu
        35   40   45

Leu Ala Thr Cys Phe Ala Arg Xaa Arg Xaa Thr Tyr Xaa Thr
    50   55   60

5892

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<210> 6655
<211> 73
<212> PRT
<213> Homo sapiens

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<222> (1)
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<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6655
Xaa Asn Xaa Xaa Thr Gln Asp Thr Ala Met Thr Met Ile Thr Pro Ser
 1               5                  10                  15

Ser Asn Thr Thr His Tyr Arg Xaa Ser Cys Tyr Ala Cys Xaa Tyr Arg
            20                  25                  30

Ser Gly Ile Pro Gly Ser Thr His Ala Ser Ala Phe Gly Val His Lys
            35                  40                  45

Met Ser Gly Ser Leu Asn Phe Leu Ser Asn Leu Glu Cys Leu Leu His
        50                  55                  60

Leu Phe Asn Phe Cys Lys Cys Leu Lys
 65                  70


<210> 6656
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5893

<211> 103
<212> PRT
<213> Homo sapiens

<220>
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<222> (2)
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<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (103)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6656
Leu Xaa Cys Thr Lys Lys Lys Lys Gly Gly Arg Ser Arg Gly Ser
 1   5   10   15

Lys Leu Thr Tyr Ala Cys Met Arg Arg His Ser Ser Ser Ile Val Ser
            20   25   30

Pro Lys Phe Asn Ser Leu Ala Val Val Leu Gln Arg Arg Asp Trp Glu
        35   40   45

Asn Pro Gly Val Thr Gln Leu Asn Arg Leu Ala Ala His Xaa Pro Phe
    50   55   60

Ala Ser Trp Arg Asn Ser Glu Glu Ala Arg Thr Asp Arg Pro Ser Gln
65   70   75   80

Gln Leu Arg Ser Leu Asn Gly Glu Trp Asp Ala Pro Cys Ser Gly Ala
            85   90   95

Leu Ser Ala Xaa Xaa Val Xaa
            100

5894

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<210> 6657
<211> 109
<212> PRT
<213> Homo sapiens

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<400> 6657
Ile Ala Ser Gly Arg Ser Arg Gly Xaa Lys Leu Thr Tyr Ala Cys Met
 1               5                  10                  15
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5895

Arg Arg His Ser Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu Ala
            20   25   30

Val Val Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val Thr Gln Leu
            35   40   45

Asn Xaa Leu Ala Xaa His Pro Pro Phe Xaa Ser Trp Arg Asn Ser Glu
        50   55   60

Glu Ala Arg Thr Asp Arg Pro Phe Gln Gln Leu Arg Ser Leu Asn Gly
65   70   75   80

Glu Trp Asp Ala Pro Cys Ser Gly Ala Leu Ser Ala Ala Xaa Val Xaa
            85   90   95

Val Thr Arg Ser Val Thr Val Thr Leu Ala Arg Xaa Xaa
            100   105

<210> 6658
<211> 84
<212> PRT
<213> Homo sapiens

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<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

5896

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<400> 6658
Lys Lys Lys Xaa Glu Lys Xaa Lys Gly Gly Arg Ser Arg Gly Ser Lys
 1   5   10   15

Leu Thr Tyr Ala Cys Met Arg Arg His Ser Ser Ser Ile Gly Ser Pro
            20   25   30

Lys Xaa Asn Ser Leu Ala Val Val Leu Gln Arg Arg Asp Trp Glu Asn
        35   40   45

Pro Gly Val Thr Gln Leu Arg Gly Xaa Gly Ser Thr Xaa Pro Xaa Arg
    50   55   60

Gln Leu Ala Glu Glu Arg Arg Gly Ala Ala Pro Ile Ala Leu Ala Asn
65   70   75   80

Ser Cys Ala Ala

<210> 6659
<211> 101
<212> PRT
<213> Homo sapiens

<220>
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<220>

5897

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<400> 6659
Lys Xaa Lys Lys Lys Lys Gly Gly Arg Ser Xaa Gly Ser Lys Leu Thr
 1               5               10              15

Tyr Ala Cys Met Xaa Arg His Ser Ser Ser Ile Xaa Ser Pro Lys Phe
            20              25              30

Asn Ser Leu Ala Val Val Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly
        35              40              45

Val Thr Gln Leu Asn Arg Leu Ala Ala His Pro Pro Phe Ala Ser Trp
    50              55              60

Arg Asn Ser Xaa Lys Ala Arg Thr Asp Arg Pro Xaa Gln Gln Leu Arg
65              70              75                      80

Ser Leu Asn Gly Xaa Met Gly Thr Arg Pro Val Thr Gly Ala Leu Ser
                85              90              95

Xaa Ala Gly Trp Xaa
            100




<210> 6660
<211> 92
<212> PRT
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<213> Homo sapiens

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<222> (2)
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<400> 6660
Phe Xaa Xaa Xaa Ser Gly Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala
 1   5   10   15

Cys Met Arg Arg Tyr Ser Tyr Ser Ile Val Ser Pro Lys Phe Asn Ser
              20   25   30

Leu Ala Val Val Leu Gln Arg Xaa Asp Trp Glu Asn Pro Gly Val Thr
         35   40   45

Xaa Leu Asn Arg Leu Ala Ala His Pro Pro Phe Ala Ser Trp Cys Asn
    50   55   60

Ser Glu Glu Ala Arg Thr Asp Arg Pro Ser Gln Gln Leu Arg Lys Leu

5899

```
        65                    70                    75                    80

Asn Gly Glu Trp Asp Pro Ala Leu Xaa Arg Gly Xaa
                    85                    90



<210> 6661
<211> 59
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (58)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6661
Asn Thr Lys Asn Pro Xaa Lys Lys Lys Lys Lys Gly Gly Arg Ser
  1                 5                   10                  15

Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met Arg Arg His Ser Ser Ser
                20                  25                  30

Ile Val Xaa Pro Lys Phe Asn Ser Leu Ala Val Val Leu Gln Arg Xaa
            35                  40                  45

Xaa Trp Glu Asn Pro Gly Val Thr Gln Xaa Asn
        50                  55
```

5900

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<210> 6662
<211> 71
<212> PRT
<213> Homo sapiens

<400> 6662
Ile Lys Val Ile Thr Ile Lys Lys Lys Lys Lys Gly Gly Arg Ser
  1               5                  10                  15

Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met Arg Arg His Ser Ser Ser
             20                  25                  30

Ile Val Ser Pro Lys Phe Asn Ser Leu Ala Val Val Leu Gln Arg Arg
             35                  40                  45

Asp Trp Glu Asn Pro Gly Val Thr Gln Leu Asn Arg Leu Ala Ala His
     50                  55                  60

Pro Pro Phe Ala Ser Trp Pro
 65                  70



<210> 6663
<211> 61
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6663
Xaa Xaa Asp Leu Xaa Cys Gln Xaa Asp Tyr Arg Glu Ser Trp Tyr Ala
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5901

```
        1                5                  10                 15

Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Ala Gln
            20              25              30

Leu Leu Arg Ser Glu Pro Phe Pro Leu His Phe Leu Phe Thr Gln Gly
            35              40              45

Gly Ala Gly Ser Gly Gly Arg Lys Leu Gly Gly Gly Val
        50              55              60
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<210> 6664
<211> 44
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6664
Ile Ala Ser Gly Arg Ser Ile Gly Ser Lys Leu Thr Tyr Ala Cys Met
    1                5                  10                 15

Arg Arg His Asn Ser Ser Xaa Val Ser Pro Lys Xaa Asn Ser Leu Ala
            20              25              30

Val Val Leu Gln Arg Arg Asp Trp Glu Asn Pro Xaa
        35              40
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<210> 6665
<211> 45
<212> PRT
<213> Homo sapiens

<220>
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5902

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<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6665
Gly Xaa Xaa Leu Thr Phe Pro Phe Met Xaa Xaa His Asn Ser Ser Ile
 1               5                   10                  15

Val Ser Pro Lys Phe Asn Ser Leu Ala Val Val Leu Gln Arg Pro Asp
            20                  25                  30

Trp Xaa Xaa Lys Asn Xaa Arg Asn Xaa Lys Val Arg Arg
            35                  40                  45
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5903

<210> 6666
<211> 53
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<220>
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<220>
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<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6666
Thr Ser Ser Arg Xaa Ala Ser Gly Arg Ser Arg Gly Ser Lys Leu Thr
 1   5   10   15

Tyr Ala Cys Met Arg Arg His Ser Ser Ser Ile Val Ser Pro Lys Xaa
            20   25   30

Asn Ser Leu Ala Val Val Xaa Gln Arg Arg Asp Trp Glu Asn Pro Arg
        35   40   45

Xaa Ser Cys Gly Ser
    50

<210> 6667
<211> 51
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (49)
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<220>

5904

<221> SITE
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6667
Thr Ser Ser Ser Ile Ala Ser Gly Arg Ser Arg Arg Ser Lys Leu Thr
 1   5   10   15

Tyr Ala Cys Met Arg Arg His Ser Ser Ser Ile Val Ser Pro Lys Phe
            20   25   30

Asn Ser Leu Ala Val Val Leu Gln Arg Arg Asp Trp Glu Pro Gln Lys
        35   40   45

Xaa Xaa Xaa
        50

<210> 6668
<211> 52
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (15)
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6668
Ser Leu Arg Tyr Ala Cys Met Arg Arg His Ser Ser Ser Ile Xaa Ser
 1   5   10   15

Pro Lys Phe Asn Ser Leu Ala Val Val Leu Gln Arg Arg Asp Trp Glu
            20   25   30

Asn Xaa Xaa Lys Ser Cys Lys Arg Gly Xaa Glu Leu Asn Leu Val Xaa
        35   40   45

Tyr Arg Arg Leu
     50

<210> 6669
<211> 46
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
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<220>
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<220>
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<222> (33)
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<400> 6669
Leu Phe Ile Xaa Ala Pro Lys Phe Asn Ser Leu Gly Pro Ser Phe Thr
 1   5   10   15

Arg Xaa Asp Trp Glu Asn Pro Gly Val Thr Gln Leu Xaa Arg Leu Gly
            20   25   30

Xaa Asn Pro Pro Phe Ala Asn Trp Gly Ile Thr Lys Lys Ala

5906

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          35                40                45


<210> 6670
<211> 29
<212> PRT
<213> Homo sapiens

<220>
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<220>
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<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6670
Ile Gln Phe Thr Xaa Arg Xaa Leu Gln Xaa Xaa Asp Trp Glu Asn Pro
 1               5                10                15

Gly Val Xaa Gln Leu Asn Arg Leu Ala Ala His Pro Pro
            20                25



<210> 6671
<211> 158
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (11)
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Arg Gly Trp Ala Xaa Xaa Pro Xaa Arg Arg Xaa Pro Val Glu Asp Xaa
 1   5   10   15

His Leu Pro Arg Leu Val Ser Arg Thr Pro Gly Thr Xaa Pro Xaa Tyr
            20   25   30

Xaa His Ser Tyr Leu Gly Ser Ala Arg Glu Arg Gln Ala Arg Ser Glu
        35   40   45

Gly Xaa Ser Xaa Gly Gly Xaa Leu Glu Thr Pro Ser Lys Arg Ser Ala
    50   55   60

Gln Ile Gly Pro Arg Xaa Ala Ser Tyr Tyr Ala Trp Ser Xaa Pro Gly
65   70   75   80

Xaa Tyr Lys Ala Gly Ser Ser Gln Asp Asp Gln Glu Asp Ala Cys Asp
            85   90   95

Asp Ala Leu Ser Xaa Tyr Ser Xaa Leu Glu Leu Thr Arg Xaa Xaa Ser
            100   105   110

Tyr Arg Gly Arg Ser Xaa Gly Ser Lys Leu Thr Tyr Ala Cys Met Arg
        115   120   125

Arg His Ser Ser Ser Ile Xaa Xaa Pro Lys Xaa Asn Ser Leu Ala Val
        130   135   140

Xaa Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val Thr Gln
145   150   155

<210> 6672
<211> 77
<212> PRT
<213> Homo sapiens

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Gly Gly Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met Arg Arg
            20   25   30

His Xaa Ser Ser Ile Val Ser Pro Lys Xaa Asn Ser Leu Ala Gly Xaa
        35   40   45

Phe Thr Thr Val Val Thr Gly Lys Asn Pro Gly Val Thr Gln Leu Asn
    50   55   60

Arg Leu Cys Xaa His Ile Pro Pro Phe Arg Gln Leu Ala
65   70   75

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5912

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Gln Gln Xaa Xaa Ser Leu Asn Gly Xaa Trp His Ala Pro Cys Ser Gly
 1   5   10   15

Ala Leu Xaa Ala Ala Xaa Val Val Asp Thr Arg Ser Val Thr Ala Thr
            20   25   30

Leu Ala Ser Xaa Leu Arg Pro Leu Leu Xaa Leu Tyr Phe Pro Ser Phe
        35   40   45

Leu Ala Thr Phe Ser Arg Leu Ser Pro Xaa Lys Leu Xaa Asn Arg Xaa
    50   55   60

Ala Ser Leu Xaa Gly Val Pro Ile Leu Xaa Ala Phe Tyr
 65   70   75

<210> 6674
<211> 90
<212> PRT
<213> Homo sapiens

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<400> 6674
Arg His Ser Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu Ala Val
  1   5   10   15

Val Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val Thr Gln Leu Asn
            20   25   30

Arg Leu Ala Ala His Xaa Pro Phe Ala Ser Trp Xaa Asn Ser Glu Glu
            35   40   45

Ala Arg Thr Asp Arg Thr Ser Gln Gln Leu Arg Ser Leu Asn Gly Glu
        50   55   60

Trp Asp Ala Pro Cys Ser Gly Ala Leu Xaa Ala Ala Gly Val Val Val
 65   70   75   80

Thr Arg Xaa Xaa Thr Ala Thr Leu Xaa Ser
            85   90

<210> 6675
<211> 63
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<213> Homo sapiens

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<400> 6675
Cys Met Arg Arg His Ser Xaa Xaa Ile Xaa Xaa Pro Lys Phe Asn Ser
  1   5   10   15

Leu Ala Val Val Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val Thr
              20   25   30

Gln Leu Asn Arg Leu Ala Ala His Pro Pro Phe Ala Ser Trp Arg Asn
          35   40   45

Ser Glu Glu Ala Arg Thr Asp Arg Pro Ser Gln Gln Leu Arg Ser
      50   55   60

<210> 6676
<211> 137
<212> PRT
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<400> 6676
Ile Lys Leu Gly Asn Gln Lys Lys Lys Lys Xaa Lys Gly Gly Arg
    1   5   10   15

Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met Arg Arg His Ser Ser
                20   25   30

Ser Ile Val Xaa Pro Lys Phe Asn Ser Leu Ala Val Val Leu Gln Arg
            35   40   45

Arg Asp Trp Glu Asn Pro Gly Val Thr Gln Leu Asn Arg Leu Ala Ala
        50   55   60

His Pro Pro Phe Ala Ser Trp Arg Asn Ser Glu Glu Ala Arg Thr Asp
 65   70   75   80

Arg Pro Ser Gln Gln Leu Arg Ser Leu Asn Gly Glu Trp Asp Ala Pro
                85   90   95

Cys Ser Gly Ala Leu Ser Ala Ala Gly Val Val Val Thr Pro Gln Arg
            100   105   110

Asp Pro Leu His Leu Pro Xaa Pro Tyr Arg Pro Xaa Pro Ser Leu Ser
            115   120   125

Ser Leu Pro Xaa Xaa Pro Arg Ser Pro
    130   135

<210> 6677
<211> 92
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<400> 6677
Glu Asn Pro Gly Gly Thr Gln Leu Asn Arg Leu Ala Ala His Pro Pro

5916

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    1                 5                 10                15
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Phe Ala Ser Trp Arg Asn Ser Glu Glu Ala Arg Thr Asp Arg Pro Ser
                20   25   30

Gln Gln Leu Arg Xaa Leu Asn Gly Glu Trp Asp Ala Pro Cys Ser Gly
            35   40   45

Ala Leu Ser Ala Ala Gly Val Val Gly Thr Arg Ser Xaa Thr Ala Thr
        50   55   60

Leu Ala Ala Pro Ser Ala Ala Leu Ser Leu Leu Pro Ser Phe Ser His
65   70   75   80

Val Gly Gly Phe Pro Val Ser Ser Asn Gly Ala Pro
            85   90

<210> 6678
<211> 47
<212> PRT
<213> Homo sapiens

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<400> 6678
Leu Ile Asp Arg Ser Xaa Arg Tyr Leu Pro Leu Xaa Ile Ile Leu Lys
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5917

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         1               5                10               15

       Thr Leu Xaa Ala Met Val Phe Asn Thr Phe Asn Val Leu His Trp Gln
                   20                    25                30


       Arg Ile Xaa Asp Gln Ser Leu Pro Tyr His Asn Ile Thr Tyr Xaa
                   35                    40                45
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<210> 6679
<211> 147
<212> PRT
<213> Homo sapiens

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<400> 6679
Thr Pro Pro Tyr Cys Pro Lys Ile Gln Ser Pro Pro Tyr Ser Ser Gln
 1   5   10   15

Gly Thr Thr Ser Asp Ala Ser Leu Trp Thr Pro Pro Gln Gly Cys Pro
            20   25   30

Trp Thr Gln Xaa Ser Pro Glu Pro Arg Asn Pro Pro Val Pro Trp Thr
        35   40   45

Xaa Val Pro Ala Thr Leu Glu Leu Ala Ala Val Tyr Gln Gly Leu Ser
    50   55   60

Val Ser Pro Glu Pro Cys Leu Ser Leu Gly Ala Pro Ser Leu Leu Pro
 65   70   75   80

His Xaa Xaa Cys Gln Arg Leu Gln Pro Gln Thr Xaa Gly Xaa Cys Trp
            85   90   95

Ser His Ser Ala Glu Val Val Pro Asn Ser Glu Asp Gln Gly Pro Gly
            100   105   110

Ala Ala Phe Gln Leu Ser Glu Xaa Ser Pro Thr Gln Ser Ser Xaa Leu
        115   120   125

Gln Phe Ser Gly Cys Pro Glu Leu Trp Gln Glu Xaa Leu Glu Gly Ala
    130   135   140

Xaa Leu Gly
145

<210> 6680
<211> 172
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<213> Homo sapiens

5919

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<400> 6680
Phe Trp Leu Ala Gly Pro Lys Glu Glu Xaa Met Asp Xaa Asp Ile Pro
 1   5   10   15

Ala Val Lys Val Lys Glu Glu Pro Arg Asp Glu Glu Glu Glu Ala Lys
              20   25   30

Met Lys Ala Pro Pro Lys Ala Ala Arg Lys Thr Pro Gly Leu Pro Lys
              35   40   45

Asp Val Ser Val Ala Glu Leu Leu Arg Glu Leu Ser Leu Thr Lys Glu
         50   55   60

Glu Glu Leu Leu Phe Leu Gln Leu Pro Asp Thr Leu Pro Gly Gln Pro
 65   70   75   80

5920

Pro Thr Gln Asp Ile Lys Pro Ile Lys Thr Glu Val Gln Gly Glu Asp
                85   90   95

Gly Gln Val Val Leu Ile Lys Gln Glu Lys Asp Arg Glu Ala Lys Leu
           100   105   110

Ala Glu Asn Ala Cys Thr Leu Ala Asp Leu Thr Glu Gly Gln Val Gly
           115   120   125

Lys Leu Leu Ile Arg Lys Ser Gly Arg Val Gln Leu Leu Leu Gly Lys
       130   135   140

Val Thr Leu Asp Val Asp His Gly Asn Cys Leu Leu Leu Xaa Xaa Gly
145   150   155   160

Ala Gly Val Arg Gly Pro Xaa Arg Gln Xaa Asp Xaa
               165   170

<210> 6681
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<212> PRT
<213> Homo sapiens

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<400> 6681
Ile Ala Ala Ala Arg Val Trp Arg Leu Asn Arg Gly Leu Ser Gln Ala
  1   5   10   15

Ala Leu Leu Leu Leu Arg Gln Pro Gly Ala Arg Gly Leu Ala Arg Ser

5921

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                20                      25                      30

Val Ser Thr Trp Ala Pro Gly Gly Phe Pro Lys Gly Asp Xaa Gly Cys
        35                      40                      45

Lys Gly Tyr Leu Xaa Xaa Xaa
        50                  55



<210> 6682
<211> 56
<212> PRT
<213> Homo sapiens

<400> 6682
Gly Leu Gln Ser Asn Met Pro Lys Phe Tyr Cys Asp Tyr Cys Asp Thr
 1               5                  10                  15

Tyr Leu Thr His Asp Ser Pro Ser Val Arg Lys Thr His Cys Ser Gly
            20                      25                      30

Arg Lys His Lys Glu Asn Val Lys Asp Tyr Tyr Leu Leu Leu His Ser
            35                      40                      45

Leu Leu Leu Leu Leu Gln Gly Arg
        50                  55



<210> 6683
<211> 102
<212> PRT
<213> Homo sapiens

<400> 6683
Ser Phe Arg Arg Pro Met Ala Ser Ala Ser Thr Gln Pro Ala Ala Leu
 1               5                  10                  15

Ser Ala Glu Gln Ala Lys Val Val Leu Ala Glu Val Ile Gln Ala Phe
            20                      25                      30

Ser Ala Pro Glu Asn Ala Val Arg Met Asp Glu Ala Arg Asp Asn Ala
            35                      40                      45

Cys Asn Asp Met Gly Val Leu Lys Phe Ala Arg Leu Val Lys Ser Tyr
        50                  55                  60

Glu Ala Gln Asp Pro Glu Ile Ala Ser Leu Ser Gly Lys Leu Lys Ala
 65                  70                  75                  80
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5922

Leu Phe Leu Pro Pro Met Thr Leu Pro Pro His Gly Pro Ala Ala Gly
                85   90   95

Gly Ser Val Ala Ala Ser
            100

<210> 6684
<211> 97
<212> PRT
<213> Homo sapiens

<400> 6684
Pro Arg Val Arg Ala Asp Ile Asn Thr Lys Trp Ala Ala Thr Arg Trp
  1   5   10   15

Ala Lys Lys Ile Glu Ala Arg Glu Arg Lys Ala Lys Met Thr Asp Phe
                20   25   30

Asp Arg Phe Lys Val Met Lys Ala Lys Lys Met Arg Asn Arg Ile Ile
            35   40   45

Lys Asn Glu Val Lys Lys Leu Gln Lys Ala Ala Leu Leu Lys Ala Ser
    50   55   60

Pro Lys Lys Ala Pro Gly Thr Lys Gly Thr Ala Ala Ala Ala Ala Ala
65   70   75   80

Ala Ala Ala Ala Ala Ala Lys Val Pro Ala Lys Lys Ile Thr Ala Ala
                85   90   95

Asn

<210> 6685
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Asn Ala Xaa Ile Ser Ser Leu Gly Ala Pro Gly Thr Gly Xaa Glu Phe
 1   5   10   15

Pro Gly Arg Pro Thr Arg Pro Leu Met Glu Lys Glu Phe Pro Gly Phe
             20   25   30

Leu Glu Asn Gln Lys Asp Pro Leu Ala Val Asp Lys Ile Met Lys Asp
         35   40   45

Leu Asp Gln Cys Arg Asp Gly Lys Val Gly Phe Gln Ser Phe Phe Ser
     50   55   60

Leu Ile Ala Gly Leu Thr Ile Ala Cys Asn Asp Tyr Phe Val Val His
 65   70   75   80

Met Lys Gln Lys Gly Lys Lys
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<210> 6686
<211> 106
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<400> 6686
Thr Ile Gly Xaa Gly Gly Thr Pro Ala Gly Thr Gly Pro Glu Phe Pro
  1               5                  10                  15

Gly Arg Pro Thr Leu Ser Ser Ala Phe Pro Leu Xaa Thr Ser Thr Leu
            20                  25                  30

Ile Gln Xaa Lys Tyr Asp Pro Ser Leu Lys Pro Leu Xaa Xaa Ser Tyr
            35                  40                  45

Asp Gln Ala Thr Ser Leu Arg Ile Leu Asn Asn Gly His Ala Phe Asn
        50                  55                  60

Xaa Glu Leu Asp Asp Ser Xaa Asp Lys Ala Val Leu Lys Gly Gly Pro
65                  70                  75                  80

Leu Asp Gly Thr Asn Arg Trp Ile Lys Leu His Phe Asn Trp Gly Xaa
                85                  90                  95

Leu Xaa Gly Gln Arg Xaa Lys Thr Tyr Xaa
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5925

100   105

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<210> 6687
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<212> PRT
<213> Homo sapiens

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5926

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Ser Ser Arg Leu Ala Phe Pro Lys Ala Thr Glu Glu Xaa Lys Ala Ser
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Lys Pro His His Glu Trp Pro Ser Gly Thr Xaa Phe Ala Arg Thr Gly
            20   25   30

Asp Pro Asn Ser Xaa Ala Leu Pro Pro Trp Pro Gln Phe Asn Gln Ala
            35   40   45

Glu Thr Ile Ser Gly Asn Gln Pro Xaa Ala Xaa Gly Arg Thr Lys Phe
        50   55   60

Gln Gly Gly Leu Asp Ala Ile Leu Val Lys Asn Pro Pro Gln Gln Asn
65   70   75   80

Thr Thr Trp Pro Xaa Xaa Gln Lys Asn Arg Lys Gly Pro Gly Gly Thr
                85   90   95

Xaa Glu Gly Arg Pro Lys Xaa Phe Leu Gly Leu Gly Gln Thr
            100   105   110

<210> 6688
<211> 129
<212> PRT
<213> Homo sapiens

<400> 6688
Gly Phe Asn Asp Glu Leu Glu Ala Phe Lys Glu Arg Val Arg Gly Arg
 1   5   10   15

Ala Lys Leu Arg Ile Glu Lys Ala Met Lys Glu Tyr Glu Glu Glu Glu
            20   25   30

Arg Lys Lys Arg Leu Gly Pro Gly Gly Leu Asp Pro Val Glu Val Tyr
            35   40   45

Glu Ser Leu Pro Glu Glu Leu Gln Lys Cys Phe Asp Val Lys Asp Val
        50   55   60

Gln Met Leu Gln Asp Ala Ile Ser Lys Met Asp Pro Thr Asp Ala Lys
65   70   75   80

Tyr His Met Gln Arg Cys Ile Asp Ser Gly Leu Trp Val Pro Asn Ser
                85   90   95

5927

Lys Ala Lys Arg Arg Pro Arg Arg Glu Arg Arg Gln Val Leu Gly Thr
            100   105   110

His Tyr Trp Lys Leu Phe Pro Arg Arg Ala Met Arg Arg Met Ser Ser
        115   120   125

Val

<210> 6689
<211> 177
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6689
Gly Phe Ile Ile Asp Asp Ser Val Leu Tyr Ser Gly Ala Ser Leu Asn
  1   5   10   15

Asp Val Tyr Leu His Gln His Asp Lys Tyr Arg Tyr Asp Arg Tyr His
            20   25   30

Leu Ile Arg Asn Arg Lys Met Ser Asp Ile Met Phe Glu Trp Val Thr
            35   40   45

Gln Asn Ile Met Asn Gly Arg Gly Val Asn Arg Leu Asp Asp Val Asn
        50   55   60

Arg Pro Lys Ser Pro Glu Ile Lys Asn Asp Ile Arg Leu Phe Arg Gln
65   70   75   80

Glu Leu Arg Asp Ala Ala Tyr His Phe Gln Gly Asp Ala Asp Asn Asp
                85   90   95

Gln Leu Ser Val Thr Pro Leu Val Gly Leu Gly Lys Ser Ser Leu Leu
            100   105   110

Asn Lys Thr Ile Phe His Leu Met Pro Cys Ala Glu Gln Lys Leu Thr
        115   120   125

Ile Cys Thr Pro Tyr Phe Asn Leu Pro Ala Ile Leu Val Arg Asn Ile
    130   135   140

Ile Gln Leu Leu Arg Glu Gly Lys Lys Val Glu Ile Ile Val Gly Asp
145   150   155   160

5928

Lys Thr Xaa Asn Asp Phe Tyr Ile Pro Glu Asp Glu Pro Phe Lys Ile
                165   170   175

Ile

<210> 6690
<211> 93
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6690
His Glu Leu Val Arg Leu Xaa Gly Gly Cys Xaa Leu Leu Arg Cys Ile
  1   5   10   15

Pro Ala Leu Asp Ser Leu Thr Pro Ala Asn Glu Asp Gln Lys Ile Gly
            20   25   30

Ile Glu Ile Ile Lys Arg Thr Leu Lys Ile Pro Ala Met Thr Ile Ala
            35   40   45

Lys Asn Ala Gly Val Glu Gly Ser Leu Ile Val Glu Lys Ile Met Gln
        50   55   60

Ser Ser Ser Glu Val Gly Tyr Asp Ala Met Ala Gly Asp Phe Val Lys
65   70   75   80

Tyr Gly Gly Lys Arg Glu Ser Leu Thr Gln Gln Arg Leu
                85   90

<210> 6691
<211> 105
<212> PRT
<213> Homo sapiens

<220>

5929

<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (58)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (91)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (105)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6691
Gly Val Thr Phe Pro Val Pro Gln Ser Xaa Asp Ser Leu Leu Arg Ala
 1   5   10   15

Val Gly Pro Cys Pro Gln Gln Leu Gly Thr Gln Thr Thr Xaa Glu Arg
            20   25   30

Glu Ser Gln Ala Ser Asn Thr Lys Val Thr Arg Asp Xaa Pro Lys Ser
        35   40   45

Cys Asp Lys Thr Thr His Ala His Arg Xaa Arg Pro Glu Leu Leu Gly
    50   55   60

5930

```
Gly Pro Gln Leu Leu Phe Xaa Gln Asn Pro Arg His Ala Met Ile Ser
65              70              75              80

Arg Pro Leu Xaa His Met Arg Gly Gly Asp Xaa Ser His Glu Asp Pro
              85              90              95

Glu Ala Ser Gln Leu Asp Val Asp Xaa
            100             105
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<210> 6692
<211> 113
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (50)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (92)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (108)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6692
Arg Arg Val Ser Pro Gly Lys Asn Phe Pro Pro Gly Gly Val Pro Gly
  1           5               10              15

Thr Pro Gln Thr Gly Arg Phe Ser Gly Ala Pro Gly Gly Gly Lys Arg
            20              25              30

Gly Pro Ser Leu Arg Lys Lys Lys Gly Gly Gly Pro Ala Gln Phe Gly
          35              40              45

Pro Xaa Ser Pro Lys Pro Gln Phe Arg Gly Gln Gly Pro Gly Ile Ser
    50              55              60

Pro Trp Val Leu Leu Gly Ile Gln Pro Gly Gly Trp Gly Glu Arg Gly
65              70              75              80

Glu Thr Pro Ser Gly Arg Ser Pro Cys Arg Gly Xaa Ala Pro Leu Gly
            85              90              95
```

5931

```
Gly Gly Arg Thr Thr Ser Lys Leu Leu Glu Thr Xaa Ser Pro Glu Cys
            100                 105                 110

Leu
```

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<210> 6693
<211> 215
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (116)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (122)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (127)
<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (141)
<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (151)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (152)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (155)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (158)
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5932

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (194)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (208)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6693
Glu Phe Ser Tyr Glu Leu Ser Lys Val Glu Gly Lys Thr Gly Thr Pro
 1   5   10   15

Glu Lys Pro Leu Ser Asp Leu Gly Leu Leu Ser Tyr Arg Ser Tyr Trp
            20   25   30

Ser Gln Thr Ile Leu Glu Ile Leu Met Gly Leu Lys Ser Glu Ser Gly
        35   40   45

Glu Arg Pro Gln Ile Thr Ile Asn Glu Ile Ser Glu Ile Thr Ser Ile
    50   55   60

Lys Lys Glu Asp Val Ile Ser Thr Leu Gln Tyr Leu Asn Leu Ile Asn
65   70   75   80

Tyr Tyr Lys Gly Gln Tyr Ile Leu Thr Leu Ser Glu Asp Ile Val Asp
            85   90   95

Gly His Glu Arg Ala Met Leu Lys Arg Leu Leu Arg Ile Arg Leu Gln
            100   105   110

Val Ser Ala Xaa Ile Pro Arg Asp Trp Xaa Lys Lys Gly Gly Xaa Gly
        115   120   125

Asp Gln Thr Leu Ala Thr Gly Ile Ala Gln Asp Gly Xaa Gln Gly Leu
    130   135   140

Gly Gly Leu Asn Ser Pro Xaa Xaa Ala Pro Xaa Trp Lys Xaa Pro Thr
145   150   155   160

Lys Ala Thr Phe Lys Gly Lys Met Gly Leu Glu Gly Gln Val Gln Lys
            165   170   175

Arg Asp Arg Thr Arg Ala Leu Ala Gly Gly Pro Thr Gly Trp Pro Asn
            180   185   190

Thr Xaa Ala Lys Leu Pro Gly Leu Arg Pro Thr Phe Lys Gly Gln Xaa
    195   200   205

5933

```
Gly Pro Lys Ala Gln Gly Phe
    210             215
```

```
<210> 6694
<211> 94
<212> PRT
<213> Homo sapiens

<400> 6694
Gly Tyr Thr Arg Ala Glu Tyr Glu Ser Glu Ala Glu Gly Val Met Ala
    1               5                   10                  15

Gly Gln Ala Phe Arg Lys Phe Leu Pro Leu Phe Asp Arg Val Leu Val
                20                  25                  30

Glu Arg Ser Ala Ala Glu Thr Val Thr Lys Gly Gly Ile Met Leu Pro
            35                  40                  45

Glu Lys Ser Gln Gly Lys Val Leu Gln Ala Thr Val Val Ala Val Gly
        50                  55                  60

Ser Gly Ser Lys Gly Lys Gly Gly Glu Ile Gln Pro Val Ser Val Lys
    65                  70              75                  80

Val Gly Asp Lys Val Leu Leu Pro Glu Tyr Gly Gly Pro Lys
                85                  90
```

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<210> 6695
<211> 112
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (112)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6695
Gly Ser Val Ser Pro Val Pro Val Ala Pro Leu Pro Pro Xaa Thr Met
    1               5                   10                  15
```

5934

Gly Pro Gly Pro Arg Leu Leu Leu Pro Leu Val Leu Cys Val Gly Leu
            20   25   30

Gly Ala Leu Val Phe Ser Ser Gly Ala Glu Gly Phe Arg Lys Arg Gly
            35   40   45

Pro Ser Val Thr Ala Lys Val Phe Phe Asp Val Arg Ile Gly Asp Lys
    50   55   60

Asp Val Gly Arg Ile Val Ile Gly Leu Phe Gly Lys Val Val Pro Lys
65   70   75   80

Thr Val Glu Asn Phe Val Ala Leu Ala Thr Gly Glu Lys Gly Tyr Gly
                85   90   95

Tyr Lys Gly Ser Lys Phe Ser Ser Cys His Gln Gly Phe His Asp Xaa
            100   105   110

<210> 6696
<211> 41
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (32)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (38)

5935

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6696
Trp Arg Asp Val Ser Arg Glu Ser Thr Tyr Gln Gly His His Thr Pro
 1   5   10   15

Pro Val Gln Lys Gly Leu Arg Tyr Gly Ile Ile Xaa Phe Xaa Thr Xaa
            20   25   30

Xaa Val Phe Phe Phe Xaa Gly Phe Phe
        35   40

<210> 6697
<211> 41
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6697
Trp Arg Asp Val Xaa Arg Glu Ser Thr Tyr Gln Gly His His Thr Pro
 1   5   10   15

Pro Val Gln Lys Gly Leu Arg Tyr Gly Ile Ile Leu Phe Ile Thr Ser
            20   25   30

Xaa Ile Phe Phe Phe Ala Gly Phe Phe
        35   40

<210> 6698
<211> 93
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

5936

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (90)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6698
Ala His His Ser Leu Ile Xaa Asn Asn Arg Asn Gln Ile Ile Gln Ala
 1   5   10   15

Leu Leu Ile Thr Ile Leu Leu Gly Leu Tyr Phe Thr Leu Leu Gln Ala
             20   25   30

Ser Xaa Tyr Phe Glu Ser Pro Phe Thr Ile Ser Asp Gly Ile Tyr Gly
         35   40   45

Ser Thr Phe Phe Val Ala Thr Gly Phe His Gly Leu His Val Ile Ile
     50   55   60

Gly Ser Thr Phe Leu Thr Ile Cys Phe Ile Arg Gln Leu Ile Phe His
 65   70   75   80

Phe Thr Ser Lys His His Phe Gly Phe Xaa Thr Ala Ala
             85   90

<210> 6699
<211> 41
<212> PRT
<213> Homo sapiens

<400> 6699
Trp Arg Asp Val Thr Arg Glu Ser Thr Tyr Gln Gly His His Thr Pro
 1   5   10   15

Pro Val Gln Lys Gly Leu Arg Tyr Gly Ile Ile Leu Phe Ile Thr Ser
             20   25   30

Glu Val Phe Phe Phe Ala Gly Phe Phe
             35   40

<210> 6700
<211> 39
<212> PRT

5937

<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6700
Ala Gly Ile Leu Xaa Thr Ala Leu Ser Leu Leu Ile Arg Ala Glu Leu
  1   5   10   15

Gly Gln Pro Xaa Asn Leu Leu Xaa Asn Glu His Ile Tyr Asn Val Ile
              20   25   30

Val Thr Ala Met His Leu Leu
          35

<210> 6701
<211> 40
<212> PRT
<213> Homo sapiens

<400> 6701
Thr Ile Leu Pro Ala Ile Ile Leu Val Leu Ile Ala Leu Pro Ser Leu
  1   5   10   15

Arg Ile Leu Tyr Ile Thr Asp Glu Val Asn Asp Pro Ser Leu Thr Ile
              20   25   30

Lys Ser Ile Gly His Gln Trp Tyr
          35   40

<210> 6702
<211> 40
<212> PRT
<213> Homo sapiens

5938

<400> 6702
Thr Ile Leu Pro Ala Ile Ile Leu Val Leu Ile Ala Leu Pro Ser Leu
 1   5   10   15

Arg Ile Leu Tyr Ile Thr Asp Glu Val Asn Asp Pro Ser Leu Thr Ile
            20   25   30 .

Lys Ser Ile Gly His Gln Trp Tyr
         35   40

<210> 6703
<211> 64
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6703
Ala Val Pro Thr Leu Gly Leu Lys Thr Asp Ala Ile Pro Gly Arg Leu
 1   5   10   15

Asn Gln Thr Thr Phe Thr Ala Thr Arg Pro Gly Val Tyr Tyr Gly Gln
            20   25   30

Cys Ser Glu Ile Cys Gly Ala Asn His Ser Phe Met Pro Ile Val Leu
         35   40   45

Glu Leu Ile Pro Leu Lys Ile Phe Glu Ile Gly Xaa Val Phe Thr Leu
     50   55   60

<210> 6704
<211> 56
<212> PRT
<213> Homo sapiens

<400> 6704
Thr Tyr Glu Tyr Thr Asp Tyr Gly Gly Leu Ile Phe Asn Ser Tyr Ile
 1   5   10   15

Leu Pro Pro Leu Phe Leu Glu Pro Gly Asp Leu Arg Leu Leu Asp Val
            20   25   30

5939

```
Asp Asn Arg Val Val Leu Pro Ile Glu Ala Pro Ile Arg Ile Ile Ile
        35                  40              45

Thr Ser Gln Asp Val Leu His Ser
    50                  55
```

```
<210> 6705
<211> 45
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6705
His Val Thr Leu Trp Phe Leu Cys Phe Ile Asn Tyr Leu Ile Tyr Gln
 1               5               10              15

Tyr Gly Thr Arg Phe Xaa Lys Lys Xaa Asp Ser Xaa Asp Pro Tyr Ile
            20              25              30

Tyr Thr Pro Phe Gly Thr Gly Pro Lys Thr Ala Leu Ala
            35              40              45
```

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<210> 6706
<211> 63
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids
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5940

<400> 6706
His Leu Trp Xaa Leu Ile Glu Gly Gly Ala His Ile Tyr Val Cys Gly
 1   5   10   15

Asp Ala Arg Asn Met Ala Arg Asp Val Gln Asn Thr Phe Tyr Asp Ile
            20   25   30

Val Ala Glu Leu Gly Ala Met Glu His Ala Gln Ala Val Asp Tyr Ile
        35   40   45

Lys Lys Leu Met Thr Lys Gly Arg Tyr Ser Leu Asp Val Trp Ser
      50   55   60

<210> 6707
<211> 158
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (111)
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<220>
<221> SITE
<222> (112)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (123)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

5941

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<221> SITE
<222> (125)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (129)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (134)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (138)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (140)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (154)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6707
Xaa Pro Pro Glu Leu His Asp Xaa Ala Lys Xaa Pro Tyr Thr Glu Ala
 1               5                  10                  15

Val Ile Tyr Glu Ile Gln Arg Phe Ser Asp Leu Leu Pro Met Gly Val
             20                  25                  30

Pro His Ile Val Thr Gln His Thr Ser Phe Arg Gly Tyr Ile Ile Pro
         35                  40                  45

Lys Asp Thr Glu Val Phe Leu Ile Leu Ser Thr Ala Leu His Asp Pro
     50                  55                  60

His Tyr Phe Glu Lys Pro Asp Ala Phe Asn Pro Asp His Phe Leu Asp
65                  70                  75                  80

Ala Asn Gly Ala Leu Lys Lys Thr Glu Ala Phe Ile Pro Phe Ser Leu
             85                  90                  95

Gly Lys Arg Ile Cys Leu Gly Glu Gly Ile Ala Arg Ala Glu Xaa Xaa
             100                 105                 110
```

5942

```
Pro Leu Phe Thr Thr Ile Leu Gln Asn Phe Xaa Met Xaa Ser Pro Val
        115                 120             125

Xaa Pro Glu Asp Ile Xaa Leu Thr Pro Xaa Glu Xaa Gly Val Gly Gln
    130                 135             140

Lys Asn Pro Pro Thr Tyr Gln Asn Pro Xaa Ser Trp Pro Arg
145                 150             155
```

<210> 6708
<211> 89
<212> PRT
<213> Homo sapiens

<400> 6708
```
Phe Ser Ala Pro Ser Arg Ile Ser Ala Trp Phe Gly Pro Pro Ala Ser
  1           5               10              15

Thr Pro Ala Ser Thr Met Ser Ile Arg Val Thr Gln Lys Ser Tyr Lys
            20              25              30

Val Ser Thr Ser Gly Pro Arg Ala Phe Ser Ser Arg Ser Tyr Thr Ser
        35              40              45

Gly Pro Gly Ser Arg Ile Ser Ser Ser Ser Phe Ser Arg Val Gly Lys
    50              55              60

Gln Gln Leu Ser Arg Trp Pro Gly Arg Ala Ala Met Val Gly Pro Ala
65              70              75              80

Ala Trp Glu Ala Ser Pro Glu Leu Arg
                85
```

<210> 6709
<211> 138
<212> PRT
<213> Homo sapiens

<400> 6709
```
Arg Ser Trp Gly Ala Thr Gln Pro Gly Ser Gln Ala Pro Pro Arg Gln
  1           5               10              15

Leu Ser Arg Phe Ser His Ser Phe Pro Thr Arg Leu Leu Ser Pro Met
            20              25              30

Ala His Ala Thr Leu Ser Ala Ala Pro Ser Asn Pro Arg Leu Leu Arg
        35              40              45
```

5943

```
Val Ala Leu Leu Leu Leu Leu Leu Val Ala Ala Ser Arg Arg Ala Ala
    50                  55              60

Gly Ala Ser Val Val Thr Glu Leu Arg Cys Gln Cys Leu Gln Thr Leu
65              70              75                      80

Gln Gly Ile His Leu Lys Asn Ile Gln Ser Val Asn Val Arg Ser Pro
                85              90                      95

Gly Pro His Cys Ala Gln Thr Glu Val Ile Ala Thr Leu Lys Asn Gly
            100             105             110

Lys Lys Ala Cys Leu Asn Pro Ala Ser Pro Met Val Gln Lys Ile Ile
        115             120             125

Glu Lys Ile Leu Asn Lys Gly Ser Thr Asn
    130             135
```

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<210> 6710
<211> 76
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (62)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (75)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6710
Gly Thr Phe Arg Asn Asp Asn Ser Ala Glu Met Cys Arg Lys Cys Ser
    1           5               10              15

Thr Gly Cys Pro Arg Arg Met Val Lys Val Lys Asp Cys Thr Pro Trp
            20              25              30

Ser Asp Ile Glu Cys Val His Lys Glu Ser Gly Asn Gly His Asn Ile
        35              40              45

Trp Val Ile Phe Val Val Thr Leu Val Val Pro Leu Leu Xaa Val Ala
    50              55              60

Val Leu Ile Val Trp Cys Cys Ile Gly Ser Xaa Cys
65              70              75
```

```
<210> 6711
<211> 59
<212> PRT
<213> Homo sapiens

<400> 6711
Phe Ile Pro Ile Leu Val Ser Asn Tyr Asn Pro Lys Glu Phe Glu Ser
 1               5                  10                  15

Cys Ile Gln Tyr Tyr Leu Glu Asn Asn Trp Leu Gln His Glu Lys Ala
              20                  25                  30

Pro Thr Glu Glu Gly Lys Lys Glu Leu Leu Phe Leu Ser Asn Ala Asn
          35                  40                  45

Pro Ser Leu Leu Glu Arg His Cys Ala Tyr Leu
      50                  55



<210> 6712
<211> 104
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (29)
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5945

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (40)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (85)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (86)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (87)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (91)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (98)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6712
Xaa Arg Pro Arg Ser Gly Xaa Pro Gly Ser Thr His Ala Ser Asp Pro
 1               5                   10                  15

Pro Xaa Ile Phe Xaa Lys Pro Ala Lys Thr Ser Lys Xaa Pro Gly Ser
            20                  25                  30

Phe Xaa Glu Glu Leu Leu Xaa Xaa Thr Glu Thr Val Val Thr Glu Tyr
            35                  40                  45
```

5946

```
Leu Asn Ser Gly Asn Ala Asn Glu Ala Val Asn Gly Val Arg Glu Met
     50                  55                  60

Arg Ala Pro Lys His Phe Leu Pro Glu Met Leu Ser Lys Val Ile Ile
 65                  70                  75                  80

Leu Ser Leu Asp Xaa Xaa Xaa Glu Asp Lys Xaa Lys Ala Ser Ser Leu
                 85                  90                  95

Ile Xaa Leu Leu Lys Gln Glu Gly
             100
```

<210> 6713
<211> 43
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6713
```
Ala Leu Phe Asn Xaa Gly Ser Pro Xaa Leu His Glu Phe Arg Ser Xaa
 1           5                  10                  15

Xaa Thr Leu Phe Ile Val Leu Val Asn Asn Asp Glu Gly Glu Trp Asn
             20                  25                  30
```

5947

Gly Pro Pro Pro Xaa Cys Lys Arg Lys Asn Leu
          35   40

<210> 6714
<211> 34
<212> PRT
<213> Homo sapiens

<400> 6714
Met Cys Ser Leu Pro Phe Gln Ile Lys Ile Thr His Lys Asn Gln Met
  1   5   10   15

Pro Met Leu Met Gly Pro Pro Pro Arg Ser Thr Asn Phe Phe Gly Phe
              20   25   30

Leu Ser

<210> 6715
<211> 122
<212> PRT
<213> Homo sapiens

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<400> 6715
Gly Gly Asp Gly Thr Val Gly Trp Val Leu Gly Ala Leu Glu Glu Thr
  1   5   10   15

5948

Arg Tyr Arg Leu Ala Cys Pro Glu Pro Ser Val Ala Ile Leu Pro Leu
            20   25   30

Gly Thr Gly Asn Asp Leu Gly Arg Val Leu Arg Trp Gly Ala Gly Tyr
            35   40   45

Ser Gly Glu Asp Pro Phe Ser Val Leu Leu Ser Val Asp Glu Ala Asp
        50   55   60

Ala Val Leu Met Asp Arg Trp Thr Ile Leu Leu Asp Ala His Glu Ala
65   70   75   80

Gly Ser Ala Glu Asn Asp Thr Ala Xaa Ala Glu Pro Pro Lys Ile Val
                85   90   95

Gln Met Ser Asn Tyr Leu Trp His Trp His Xaa Pro Gly Leu Xaa Leu
            100   105   110

Asp Phe Thr Lys His Arg Xaa Glu Glu Pro
        115   120

<210> 6716
<211> 83
<212> PRT
<213> Homo sapiens

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6716
Xaa Met Ala Glu Glu Gly Xaa Pro Ala Pro Leu Pro Pro Glu Asp Ala
  1   5   10   15

Pro Asn Ala Ala Ser Leu Ala Pro Thr Pro Xaa Ser Pro Xaa Leu Glu
              20   25   30

Pro Phe Asn Leu Thr Ser Glu Pro Ser Asp Xaa Ala Leu Asp Leu Ser
          35   40   45

Thr Phe Leu Gln Gln Xaa Pro Asp Ala Phe Xaa Xaa Gly Xaa Pro Glu
      50   55   60

Leu Pro Lys Lys Lys Pro Lys Asn Pro Gln Arg Lys His Gln Gly Xaa
  65   70   75   80

Thr Arg Gly

<210> 6717
<211> 69

5950

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<212> PRT
<213> Homo sapiens

<400> 6717
Gly Cys Thr Pro Leu Phe Ile Pro Lys Leu Ala Gly Ser His Cys Ser
 1               5                  10                  15


Gly Ala Lys Gly Gly Lys Lys Ser Asp Gln Ser Asn Cys Ser Leu Glu
            20                  25                  30


Pro Leu Leu Gln Gln Leu Ser Thr Ser Tyr Lys Thr Met Pro Asp Val
            35                  40                  45


Cys Gln Ala Ser Asn Leu Leu Pro Ala Leu Arg Ser Leu Asn Cys Cys
    50                  55                  60


Leu Pro Ser Ser Leu
 65
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<210> 6718
<211> 106
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (13)
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5951

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<220>
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<222> (106)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6718
Gln Xaa Lys Asp Gly Asp Glu Phe Asn Asn Ser Ile Xaa Gln Leu Phe
 1               5                  10                  15

Leu Ala Phe Asn Met Leu Met Asp Arg Pro Leu Glu Glu Ala Val Lys
            20                  25                  30

Ile Xaa Gly Ala Xaa Leu Lys Tyr Leu Pro Ser Ile Ile Asn Asp Val
        35                  40                  45

Lys Leu Val Phe Asp Pro Val Glu Leu Xaa Val Leu Phe Cys Lys Phe
    50                  55                  60

Ile Xaa Ser Ile Pro Asp Asn Gln Xaa Val Xaa Xaa Lys Leu Asn Cys
65                  70                  75                  80
```

5952

Met Thr Lys Ile Val Glu Ser Thr Leu Phe Xaa Gln Ser Glu Cys Xaa
                    85   90   95

Glu Val Leu Leu Pro Leu Leu Thr Asp Xaa
                100   105

<210> 6719
<211> 99
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (98)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6719
Val Ala Val Lys Met Ala Leu Val Ala Ser Val Arg Val Pro Ala Arg
    1   5   10   15

Val Leu Leu Arg Ala Gly Ala Arg Leu Pro Gly Ala Ala Leu Gly Arg
                20   25   30

Thr Glu Arg Ala Ala Gly Gly Gly Asp Gly Ala Arg Arg Phe Gly Ser
                35   40   45

Gln Arg Val Leu Val Glu Pro Asp Ala Gly Ala Gly Val Ala Val Met
        50   55   60

Lys Phe Lys Asn Pro Pro Val Asn Ser Leu Ser Leu Glu Phe Leu Thr
    65   70   75   80

Glu Leu Val Ile Ser Leu Arg Ser Trp Arg Met Thr Arg Ala Ser Ala
                85   90   95

Val Xaa Phe

<210> 6720
<211> 134
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (126)
<223> Xaa equals any of the naturally occurring L-amino acids

5953

<400> 6720
Thr Pro Gln Gln Lys Tyr Gln Arg Leu Leu His Glu Val Gln Glu Leu
  1   5   10   15

Thr Thr Glu Val Glu Lys Ile Lys Thr Thr Val Lys Glu Ser Ala Thr
            20   25   30

Glu Glu Lys Leu Thr Pro Val Leu Leu Ala Lys Gln Leu Ala Ala Leu
        35   40   45

Lys Gln Gln Leu Val Ala Ser His Leu Glu Lys Leu Leu Gly Pro Asp
      50   55   60

Ala Ala Ile Asn Leu Thr Asp Pro Asp Gly Ala Leu Ala Lys Arg Leu
 65   70   75   80

Leu Leu Gln Leu Glu Ala Thr Lys Asn Ser Lys Gly Gly Ser Gly Gly
                85   90   95

Lys Thr Thr Gly Thr Pro Pro Asp Ser Ser Leu Val Thr Tyr Glu Leu
               100   105   110

His Ser Arg Pro Glu Gln Asp Lys Val Leu Ser Lys Leu Xaa Lys Val
           115   120   125

Gln Asn Leu Lys Ser Ala
       130

<210> 6721
<211> 69
<212> PRT
<213> Homo sapiens

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<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

5954

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<400> 6721
Xaa Asn Lys Xaa Trp Cys Ser Thr Ala Val Ala Xaa Ala Leu Glu Leu
 1               5                   10                  15

Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Gly Lys Thr Ser Leu
              20                  25                  30

Asn Leu Ser Leu Asn Leu Ile Phe Glu Leu Pro Ser Leu Phe Met Val
          35                  40                  45

Glu Gly Lys Gln Phe Arg Ser Leu Asp Tyr Glu Phe Cys Glu Thr His
      50                  55                  60

Asp Ser Thr Ile Thr
 65
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<210> 6722
<211> 109
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (90)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (93)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (94)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (99)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (103)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6722
Leu Leu Pro Ser Glu Ser Pro Met Ala His Trp Trp Trp Trp Thr Ala
 1               5                   10                  15
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Cys Gln Ala Cys Asp Ser Ala Ala Ala Gly His Cys Arg Ala His Gln
         20              25                  30

Ala Cys Ala Asp Asp Glu Gln Asp Val Asn Val Ile Ile Ser Thr Tyr
         35              40                  45

Gly Glu Gly Glu Ser Gly Pro Met Gly Asn Ile Met Ile Asp Pro Val
    50              55                  60

Leu Gly Thr Val Gly Phe Gly Ser Gly Leu His Gly Trp Ala Phe Thr
65              70                  75                  80

Leu Lys Gln Phe Ala Glu Met Tyr Val Xaa Lys Phe Xaa Xaa Lys Gly
             85                  90                  95

Glu Gly Xaa Leu Gly Pro Xaa Glu Arg Ala Lys Lys Val
         100             105
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<210> 6723
<211> 50
<212> PRT
<213> Homo sapiens

<220>
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<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids

5956

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<220>
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<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6723
Lys Cys Thr Ile Thr Gly Leu Thr Xaa Trp Asp Pro Xaa Cys Glu Ala
 1               5                  10                  15

Xaa Asp Arg Gly Asp Lys Phe Val Leu Arg Ser Xaa Tyr Ser Ser Cys
               20                  25                  30

Gly Met Xaa Val Ser Xaa Ser Met Ile Ser Asn Glu Xaa Xaa Val Asn
               35                  40                  45

Ile Leu
     50




<210> 6724
<211> 106
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6724
Ala Xaa Ala Trp Ala Pro Pro Pro Leu Ser Pro Trp Ser Ser Cys Lys
 1               5                  10                  15

Ser Ala Arg Met Ser Gln Ala Glu Phe Glu Lys Ala Ala Glu Glu Val
               20                  25                  30

Arg His Leu Lys Thr Lys Pro Ser Asp Glu Glu Met Leu Phe Ile Tyr
               35                  40                  45

Gly His Tyr Lys Gln Ala Thr Val Gly Asp Ile Asn Thr Glu Arg Pro
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5957

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            50                    55                    60

Gly Met Leu Asp Phe Thr Gly Lys Ala Lys Trp Asp Ala Trp Asn Glu
65                      70                  75                  80

Leu Lys Gly Thr Ser Lys Glu Asp Ala Met Lys Ala Tyr Ile Asn Lys
                    85                  90                  95

Val Glu Glu Leu Lys Lys Lys Tyr Gly Ile
                100                 105
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<210> 6725
<211> 120
<212> PRT
<213> Homo sapiens

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<221> SITE
<222> (64)
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<220>
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<222> (65)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (71)
<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (103)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (104)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (110)
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (114)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6725
Ala Trp Cys Arg Trp Leu Val Ser Ala Thr Cys Val Gly Thr Ala Asp
  1   5   10   15

Arg Lys Met Ser Ser Gly Asn Ala Lys Ile Gly His Pro Ala Pro Asn
            20   25   30

Phe Lys Ala Thr Ala Val Met Pro Asp Gly Gln Phe Lys Asp Ile Ser
        35   40   45

Leu Ser Asp Tyr Lys Gly Lys Tyr Val Val Phe Phe Phe Tyr Pro Xaa
    50   55   60

Xaa Phe Thr Phe Val Cys Xaa Thr Glu Ile Ile Ala Phe Ser Asp Arg
 65   70   75   80

Ala Xaa Glu Phe Lys Lys Leu Asn Cys Gln Val Ile Gly Ala Ser Val
            85   90   95

Asp Ser His Phe Cys His Xaa Xaa Trp Val Asn Thr Pro Xaa Lys Gln
            100   105   110

Xaa Xaa Leu Gly Pro Met Asn Ile
        115   120

<210> 6726
<211> 193
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

5959

<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (189)
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<400> 6726
Xaa Ser Xaa Ala Pro Ala Val Pro Val Arg Asn Ser Arg Val Asp Pro
 1   5   10   15

Arg Val Arg Thr Xaa Xaa Val Val Asn Cys Phe Val Asn Asn Asn Arg
            20   25   30

Gln Cys Gln Cys Thr Ser Val Gly Ala Gln Asn Thr Val Ile Cys Ser
            35   40   45

Lys Leu Ala Ala Lys Cys Leu Val Met Lys Ala Glu Met Asn Gly Ser
      50   55   60

Lys Leu Gly Arg Arg Ala Lys Pro Glu Gly Ala Leu Gln Asn Asn Asp
 65   70   75   80

Gly Leu Tyr Asp Pro Asp Cys Asp Glu Ser Gly Leu Phe Lys Ala Lys
                85   90   95

Gln Cys Asn Gly Thr Ser Met Cys Trp Cys Val Asn Thr Ala Gly Val
            100   105   110

Arg Arg Thr Asp Lys Asp Thr Glu Ile Thr Cys Ser Glu Arg Val Arg
            115   120   125

Thr Tyr Trp Ile Ile Ile Glu Leu Lys His Lys Ala Arg Glu Lys Pro
      130   135   140

Tyr Asp Ser Lys Ser Leu Arg Thr Ala Leu Gln Lys Glu Ile Thr Thr
145   150   155   160

Arg Tyr Gln Leu Asp Pro Lys Phe Ile Thr Ser Ile Leu Tyr Glu Asn
            165   170   175

5960

Asn Val Ile Thr Ile Asp Leu Val Gln Asn Ser Ser Xaa Lys Asn Ser
              180   185   190

Glu

<210> 6727
<211> 153
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (108)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (151)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6727
His Val Val Glu Gly Thr Pro Ala Gly Thr Gly Ser Gly Ile Pro Gly
  1   5   10   15

Tyr Leu Ile Tyr Leu Lys Phe Lys Ala Thr Tyr Asp Gly Asn His Asp
              20   25   30

Thr Phe Arg Val Glu Phe Leu Val Val Pro Val Gly Gly Leu Ser Phe
          35   40   45

Leu Val Asn His Asp Phe Ser Pro Leu Glu Ile Leu Trp Thr Phe Ser
      50   55   60

Ile Tyr Leu Glu Ser Val Ala Ile Leu Pro Gln Leu Phe Met Ile Ser
 65   70   75   80

Lys Thr Gly Glu Ala Glu Thr Ile Thr Thr His Tyr Leu Phe Phe Leu
              85   90   95

Gly Leu Tyr Arg Ala Leu Tyr Leu Val Asn Trp Xaa Trp Arg Phe Tyr
          100   105   110

Phe Glu Gly Phe Phe Asp Leu Ile Ala Val Val Ala Gly Val Val Gln
          115   120   125

Thr Ile Leu Tyr Cys Asp Phe Phe Tyr Leu Tyr Ile Gln Lys Tyr Ser
      130   135   140

5961

Arg Glu Arg Ser Ser Val Xaa Gln His
145   150

<210> 6728
<211> 135
<212> PRT
<213> Homo sapiens

<220>
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<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

5962

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<221> SITE
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<222> (74)
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<222> (75)
<223> Xaa equals any of the naturally occurring L-amino acids

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<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (99)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (116)
<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (120)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (122)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6728
Pro Ser Cys Gly Ala Gly His Thr Ala Gly Gly Gly Arg Gly Arg Xaa
  1               5                  10                  15

Pro Xaa Ser Trp Pro Pro Pro Val Glu Xaa Val Thr Leu Xaa Asp Leu
            20                  25                  30
```

5963

Ser Gln Leu Ile Ile Arg Asn Cys Xaa Ser Phe Asp Ile His Xaa Ile
        35   40   45

His Val Cys Leu His Leu Xaa Val Leu Leu Gly Phe Pro Ser Asp Gly
    50   55   60

Pro Leu Val Cys Ala Leu Xaa Xaa Glu Xaa Xaa Leu Arg Leu Pro Pro
65   70   75   80

Lys Ala Xaa Ser Pro Phe Ala Thr Pro Ser Pro Lys Ser Asn Gly Xaa
            85   90   95

Arg Thr Xaa Ser Pro Arg Asp Gly Ala Pro Trp Pro Ile Thr Gly Pro
        100   105   110

Gly Pro Val Xaa Gly Thr Pro Xaa Phe Xaa Glu Asn Pro Cys Pro Leu
        115   120   125

Pro Gly Trp Phe Gln Glu Thr
    130   135

<210> 6729
<211> 157
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (143)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (146)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (149)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (150)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

5964

<222> (151)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6729
Thr Gln Pro Thr Val Cys Thr Asp Ala Pro Ser Leu Leu Pro Leu Ser
 1   5   10   15

Arg Leu His Leu Arg Gly Ser Trp Asp Arg Arg Ser Val Ala Asn Met
            20   25   30

Gln Leu Phe Val Arg Ala Gln Glu Leu His Thr Phe Glu Val Thr Gly
            35   40   45

Gln Glu Thr Val Ala Gln Ile Lys Ala His Val Ala Ser Leu Glu Gly
        50   55   60

Ile Ala Pro Glu Asp Gln Val Val Leu Leu Ala Gly Ala Pro Leu Glu
 65   70   75   80

Asp Glu Ala Thr Leu Gly Gln Cys Gly Val Glu Ala Leu Thr Thr Leu
                85   90   95

Glu Val Ala Gly Arg Met Leu Gly Gly Lys Val His Gly Ser Leu Ala
            100   105   110

Arg Ala Gly Lys Val Arg Gly Gln Thr Pro Lys Val Ala Lys Gln Glu
            115   120   125

Lys Lys Lys Lys Lys Thr Gly Arg Ala Lys Arg Arg Met Gln Xaa Asn
        130   135   140

Arg Xaa Phe Val Xaa Xaa Xaa Pro Pro Leu Ala Arg Arg
145   150   155

<210> 6730
<211> 164
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

5965

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<220>
<221> SITE
<222> (71)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (73)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (97)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (128)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6730
Val Xaa Asp Gln Ile Thr Ala Val Arg Lys Phe Ile Xaa Met Gly Phe
  1               5                  10                  15

Ile Asp Glu Lys Arg Ile Ala Ile Trp Gly Trp Ser Tyr Gly Gly Tyr
            20                  25                  30

Val Ser Ser Leu Ala Leu Ala Ser Gly Thr Gly Leu Phe Lys Cys Gly
            35                  40                  45

Ile Ala Val Ala Pro Val Ser Ser Trp Glu Tyr Tyr Ala Ser Val Tyr
      50                  55                  60

Thr Glu Arg Phe Met Gly Xaa Pro Xaa Lys Asp Asp Asn Leu Glu His
 65                  70                  75                  80

Tyr Lys Asn Ser Thr Val Met Ala Arg Ala Glu Tyr Phe Arg Asn Val
                  85                  90                  95

Xaa Tyr Leu Leu Ile His Gly Thr Ala Asp Asp Asn Val His Phe Gln
              100             105             110

Asn Ser Ala Gln Ile Ala Lys Ala Leu Val Asn Ala Gln Val Asp Xaa
            115             120             125

Gln Ala Met Trp Tyr Ser Asp Gln Asn His Gly Leu Ser Gly Leu Ser
      130             135             140

Thr Asn His Leu Tyr Thr His Met Thr His Phe Leu Lys Gln Cys Phe
145             150             155             160
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5966

Ser Leu Ser Asp

<210> 6731
<211> 26
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6731
Gly Xaa Gly Arg Xaa Gln Cys Xaa Asn Thr Leu Gln Thr Asn Ala Gly
  1   5   10   15

Tyr Leu Glu Gln Val Lys Arg Xaa Xaa Xaa
            20   25

<210> 6732
<211> 61

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<400> 6732
Ser Ala Ile Ala Ser Xaa Arg Tyr Lys Arg Phe Xaa Ile Arg Xaa Arg
 1               5                  10                  15

Ile Lys Met Gln Xaa Asp Xaa Val Arg Ser Val Ile Gln Asn Leu Thr
            20                  25                  30

Glu Glu Gln Ser Met Val Leu Cys Ala Ala Xaa Xaa Lys Ala Gly Ser
```

5968

                35   40   45

Met Xaa Leu His Gln Asp Asn Ser His Thr Pro Val Ser
        50   55   60

<210> 6733
<211> 38
<212> PRT
<213> Homo sapiens

<400> 6733
Ala Phe Ile Ala Lys Ser Phe Tyr Asp Leu Ser Ala Ile Ser Leu Asp
    1   5   10   15

Gly Glu Lys Val Asp Phe Asn Thr Ser Arg Gly Arg Ala Val Leu Ile
            20   25   30

Glu Asn Val Ala Ser Leu
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<210> 6734
<211> 95
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<400> 6734
Ala Asp Glu Pro Ile Pro Xaa Lys Glu Leu Glu Arg Gly Val Ala Gly
 1               5               10              15

Ala His Gly Leu Leu Cys Leu Leu Ser Asp His Val Asp Lys Arg Ile
            20              25              30

Leu Asp Ala Ala Xaa Ala Asn Leu Lys Val Ile Ser Thr Met Xaa Xaa
            35              40              45

Gly Xaa Asp His Leu Ala Leu Asp Glu Ile Lys Lys Arg Gly Ile Arg
    50              55              60

Val Gly Tyr Thr Pro Asp Val Leu Thr Asp Thr Thr Val Glu Leu Ala
65              70              75                      80

Val Xaa Leu Leu Leu Thr Thr Xaa Arg Arg Leu Xaa Glu Ala Ile
            85              90              95


<210> 6735
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<212> PRT
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5970

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<400> 6735
Ala Ala Cys Leu Ala Asp Leu Ala Asp Arg Xaa Tyr Lys Gln Ala Xaa
 1               5               10              15

Lys Cys Leu Leu Xaa Xaa Ser Phe Asp His Cys Asp Phe Pro Glu Leu
            20              25              30
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<210> 6736
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<400> 6736
Cys Pro Trp Pro Leu Lys Leu Arg Cys Gln Cys Leu Gln Thr Leu Gln
  1   5   10   15

Gly Ile His Pro Lys Asn Ile Gln Ser Val Asn Xaa Lys Ser Pro Gly
                20   25   30

Pro His Cys Ala Gln Thr Glu Val Ile Ala Thr Leu Lys Asn Gly Arg
               35   40   45

Lys Xaa Xaa Leu Gln Ser Cys Met Pro His Xaa Leu Xaa Xaa Leu Ser
    50   55   60

Xaa Lys Xaa Val Xaa Gln Trp Gln Ile Gln Leu Xaa Gln Lys Gly Gly
 65   70   75   80

Arg Lys Val Xaa Trp Trp Val Xaa Ala Xaa Arg Glu Xaa Leu Xaa Leu
                85   90   95

Phe

<210> 6737
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<212> PRT
<213> Homo sapiens

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5973

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Ser Pro Gly Pro His Xaa Ala Gln Thr Gly Val Ile Ala Thr Leu Lys
 1               5              10              15

Xaa Gly Arg Lys Ala Cys Leu Asn Pro Ala Xaa Pro Ile Val Met Lys
            20              25              30

Xaa Ile


<210> 6738
<211> 18
<212> PRT
<213> Homo sapiens

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<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6738
Arg Xaa Val Ala Glu Asp Xaa His Leu Trp Asn Asp Ser Gln Pro Leu
 1               5              10              15

Lys Leu


<210> 6739
<211> 66
<212> PRT
<213> Homo sapiens

<400> 6739
Arg Gly Cys His Ser Asp Phe Leu Pro Glu Leu Leu Leu Ala Pro Ser
 1               5              10              15

Ser Lys Lys Gly Lys Ala Arg Leu Ser Pro Arg Ser Val Gly Val Ile
            20              25              30

Ser Pro Tyr Arg Lys Gln Val Glu Lys Ile Arg Tyr Cys Ile Thr Lys
            35              40              45
```

5974

```
Leu Asp Arg Glu Leu Arg Gly Leu Asp Asp Ile Lys Asp Leu Lys Val
      50                    55                  60


Val Gln
 65
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<210> 6740
<211> 91
<212> PRT
<213> Homo sapiens

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<400> 6740
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Arg His Glu Glu Phe Ala Arg Tyr Thr Thr Pro Glu Asp Ala Thr Pro
 1               5                   10                  15


Glu Pro Gly Glu Asp Pro Arg Val Thr Arg Ala Lys Tyr Phe Ile Arg
            20                  25                  30


Asp Glu Phe Leu Arg Ile Ser Thr Ala Ser Gly Asp Gly Arg His Tyr
          35                  40                  45


Cys Tyr Pro His Phe Thr Cys Ala Val Asp Thr Glu Asn Ile Arg Arg
      50                  55                  60


Val Phe Asn Asp Cys Arg Asp Ile Ile Gln Arg Met His Leu Arg Gln
 65                  70                  75                  80


Tyr Glu Leu Leu Xaa Glu Gly Asn Pro Gln Ile
                85                  90
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<210> 6741
<211> 23
<212> PRT
<213> Homo sapiens

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<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids


<400> 6741
Asp Leu Tyr Lys Lys Xaa Gly Lys Leu Glu Phe Leu Gly Leu Asp Asn
 1               5                   10                  15

Ala Gly Gln Asn Xaa Xaa Xaa
              20




<210> 6742
<211> 36
<212> PRT
<213> Homo sapiens

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5976

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6742
Ala Gln Gln Gly Ala Pro Cys Pro Ser Arg Cys Gly Glu Xaa Pro Ala
 1   5   10   15

Cys His Trp Leu Pro Pro Asp Leu Thr Glu Pro Pro Xaa Ala Gln Leu
            20   25   30

Xaa Xaa Xaa Phe
        35

<210> 6743
<211> 80
<212> PRT
<213> Homo sapiens

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<400> 6743
Thr Arg Pro Asp Lys Xaa Val Lys Asp Leu Val Ile Leu Leu Tyr Glu
 1   5   10   15

Thr Ala Leu Leu Ser Ser Gly Phe Ser Leu Glu Asp Xaa Gln Thr His
            20   25   30

Ala Asn Arg Ile Tyr Arg Met Ile Lys Leu Gly Leu Gly Ile Asp Glu
            35   40   45

Asp Asp Pro Thr Ala Asp Asp Thr Ser Ala Ala Val Thr Glu Glu Met
        50   55   60

5977

```
Pro Pro Leu Glu Gly Asp Asp Xaa Thr Ser Arg Met Glu Xaa Val Asp
65                  70              75                  80
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<210> 6744
<211> 83
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<213> Homo sapiens

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<400> 6744
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Gly Xaa Ala Ser Pro Leu Gly Pro Ala Ala Leu Arg Asp Ser Glu Glu
  1               5              10                  15

Lys Leu Ala Pro Gly Gly Arg Gly Ser Val Asn Met Gly Lys Gly Asp
              20              25              30

Pro Asn Lys Pro Arg Gly Lys Met Ser Ser Tyr Ala Phe Phe Val Gln
          35              40              45

Thr Cys Arg Glu Arg Ala Gln Glu Arg Asn Thr Arg Thr Leu Pro Ser
      50              55              60
```

5978

```
Ile Ser Xaa Glu Phe Ser Xaa Xaa Phe Phe Gly Lys Met Glu Lys Pro
 65                  70                  75                  80

Phe Xaa Pro
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<210> 6745
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<222> (145)
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<400> 6745
Leu Val Ala Ala Leu Ala Pro Met Ser Leu Pro Asn Ser Ser Cys Leu
 1   5   10   15

Leu Glu Asp Lys Met Cys Glu Gly Asn Lys Thr Thr Met Ala Ser Pro
            20   25   30

Gln Leu Met Pro Leu Val Val Val Leu Ser Thr Ile Cys Leu Val Thr
        35   40   45

Val Gly Leu Asn Leu Leu Val Leu Tyr Ala Val Arg Ser Glu Arg Lys
    50   55   60

Leu His Thr Val Gly Asn Leu Tyr Ile Val Ser Xaa Ser Val Ala Asp
65   70   75   80

Leu Ile Val Gly Ala Val Val Met Pro Met Asn Ile Leu Tyr Leu Leu
            85   90   95

Met Ser Lys Trp Xaa Xaa Gly Arg Pro Xaa Cys Leu Phe Trp Xaa Ser
        100   105   110

Met Asp Tyr Val Ala Ser Thr Ala Ser Ile Phe Xaa Val Phe Ile Leu
        115   120   125

Cys Ile Asp Arg Tyr Arg Ser Val His Asn Pro Ser Gly Thr Leu Xaa
    130   135   140

Xaa Val Pro Lys Pro Glu
145   150

<210> 6746
<211> 30
<212> PRT
<213> Homo sapiens

<400> 6746
Val Leu Glu Leu Ala Gly Asn Ala Ser Lys Asp Leu Lys Val Lys Arg
 1   5   10   15

Ile Thr Pro Arg His Leu Gln Leu Ala Ile Arg Gly Asp Glu
            20   25   30

<210> 6747

5980

<211> 128
<212> PRT
<213> Homo sapiens

<220>
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<400> 6747
Ala Cys Arg Glu Glu His Lys Lys Lys His Pro Asp Ala Ser Val Asn
  1   5   10   15

Phe Ser Glu Phe Ser Lys Lys Cys Ser Glu Arg Trp Lys Thr Met Ser
            20   25   30

Ala Lys Glu Lys Gly Lys Phe Glu Asp Met Ala Lys Ala Asp Lys Ala
        35   40   45

Arg Tyr Glu Arg Glu Met Lys Thr Tyr Ile Pro Pro Lys Gly Glu Thr
    50   55   60

Lys Lys Lys Phe Lys Asp Pro Asn Ala Pro Lys Arg Pro Pro Ser Ala
 65   70   75   80

Phe Phe Leu Phe Cys Ser Glu Tyr Arg Pro Lys Ile Lys Gly Glu His
            85   90   95

Pro Gly Leu Ser Ile Gly Asp Val Ala Lys Lys Leu Gly Glu Met Trp
            100   105   110

Asn Asn Thr Ala Ala Xaa Asp Lys Xaa Leu Xaa Lys Lys Xaa Ala Ala
        115   120   125

5981

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<210> 6748
<211> 60
<212> PRT
<213> Homo sapiens

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<400> 6748
Gly Thr Arg Xaa Glu Leu Ile Arg Pro Glu Arg Asn Thr Leu Val Val
  1               5                  10                  15


Ser Phe Val Asp Leu Glu Gln Phe Asn Gln Gln Leu Ser Thr Thr Ile
            20                  25                  30


Gln Glu Glu Phe Tyr Arg Val Tyr Pro Tyr Leu Cys Arg Ala Leu Lys
            35                  40                  45


Thr Phe Val Lys Asp Ser Gly Arg Arg Thr Tyr Lys
        50                  55                  60



<210> 6749
<211> 105
<212> PRT
<213> Homo sapiens

<220>
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<400> 6749

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Xaa Leu Asn Arg Xaa Ser Ser Cys Ser Ser Cys Xaa Met Pro Cys Ser
 1               5                   10                  15

Ile Xaa Glu Arg Gln Xaa Ser Ser Gln Pro Ala Leu Ser Leu Ala Leu
         20                  25                  30

Ser Xaa Xaa Xaa Arg Gly Trp Tyr Ile Ser Ala Ser Ala Xaa Gly Asp
         35                  40                  45

Trp Gly Gly Trp Leu Asn Ala Arg Met Leu Gln Xaa Cys Ser Val Lys
     50                  55                  60

Gly Leu Ser Leu Asn Gln Val Met Val Asp Asp Ala Gly Val Pro Leu
 65                  70                  75                  80

Met Gly Ser Tyr Ile Gly Val Met Val Leu Leu Tyr Lys Pro Gly Leu
                 85                  90                  95
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5983

Thr Asp Glu Pro Glu Ala Val Gly Glu
                100   105

<210> 6750
<211> 121
<212> PRT
<213> Homo sapiens

<400> 6750
Arg Glu Gln Lys Leu Glu Leu His Arg Gly Gly Gly Arg Ser Arg Thr
  1   5   10   15

Ser Gly Ser Pro Gly Leu Gln Glu Phe Gly Thr Ser Arg Tyr Asn Gln
                20   25   30

Glu Thr Pro Met Glu Ile Cys Leu Asn Gly Thr Pro Ala Leu Ala Tyr
            35   40   45

Leu Ala Ser Ala Pro Pro Pro Leu Cys Pro Ser Gly Arg Thr Pro Asp
        50   55   60

Leu Lys Ala Leu Leu Asn Val Val Asp Asn Ala Arg Ser Phe Ile Tyr
 65   70   75   80

Val Ala Val Met Asn Tyr Leu Pro Thr Leu Glu Phe Ser His Leu Arg
                85   90   95

Ala Trp Arg Gln Gly Ala Pro Ala His Gln Leu Leu Gly Thr Leu Gly
            100   105   110

Gly His Pro Cys Gly Pro Ser Cys Ser
            115   120

<210> 6751
<211> 50
<212> PRT
<213> Homo sapiens

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5984

<400> 6751
Phe Ser Leu Phe Pro Leu Ala Lys Ser Phe Asp Asp Gly Asp Tyr Phe
1   5   10   15

Pro Val Trp Gly Thr Cys Leu Gly Phe Glu Glu Leu Leu Met Leu Xaa
                20   25   30

Ser Gly Glu Cys Leu Leu Thr Ala Thr Gly Xaa Cys Leu Thr Trp Gln
            35   40   45

Cys Arg
    50

<210> 6752
<211> 165
<212> PRT
<213> Homo sapiens

<400> 6752
Gly Ala Gly Gly Gly Phe Gly Ser Pro Met Asp Ile Phe Asp Met Phe
1   5   10   15

Phe Gly Gly Gly Gly Arg Met Gln Arg Glu Arg Arg Gly Lys Asn Val
                20   25   30

Val His Gln Leu Ser Val Thr Leu Glu Asp Leu Tyr Asn Gly Ala Thr
            35   40   45

Arg Lys Leu Ala Leu Gln Lys Asn Val Ile Cys Asp Lys Cys Glu Gly
    50   55   60

Arg Gly Gly Lys Lys Gly Ala Val Glu Cys Cys Pro Asn Cys Arg Gly
65   70   75   80

Thr Gly Met Gln Ile Arg Ile His Gln Ile Gly Pro Gly Met Val Gln
                85   90   95

Gln Ile Gln Ser Val Cys Met Glu Cys Gln Gly His Gly Glu Arg Ile
            100   105   110

Ser Pro Lys Asp Arg Cys Lys Ser Cys Asn Gly Arg Lys Ile Val Arg
            115   120   125

Glu Lys Lys Ile Leu Glu Val His Ile Asp Lys Gly Met Lys Asp Gly
    130   135   140

Gln Lys Ile Thr Phe His Gly Glu Gly Asp Gln Glu Pro Gly Leu Glu
145   150   155   160

5985

Pro Gly Asp Ile Ile
                165

<210> 6753
<211> 57
<212> PRT
<213> Homo sapiens

<220>
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5986

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<400> 6753
Xaa Pro Thr Xaa Pro Leu Ser His Met Asn Ile Xaa Gln Xaa Phe Glu
  1           5                   10          ·         15


Phe His Arg Met Ile Trp Ala Asp Leu Ser Cys Leu Val Tyr Arg Ala
            20                  25                  30


Asp Thr Gln Xaa Tyr Gln Pro Leu Xaa Thr Lys Xaa Gly Xaa Lys Glu
          35                  40                  45


Lys Phe Tyr Val Leu Leu Arg Gly Xaa
      50                  55




<210> 6754
<211> 28
<212> PRT
<213> Homo sapiens


<400> 6754
Pro Cys Lys Gly Ser Ile Ile Thr Cys Ser Leu Ser Arg Asp Leu Tyr
  1           5                   10                  15


Glu Trp Leu His Glu Gly Ser Ala Val Ser Tyr Phe
            20                  25




<210> 6755
<211> 127
<212> PRT
<213> Homo sapiens


<220>
<221> SITE
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<220>
<221> SITE
<222> (126)
<223> Xaa equals any of the naturally occurring L-amino acids


<400> 6755
Asn Ser Gly Arg Gly Asp Leu Leu Tyr Gly Cys Tyr Thr Arg Pro Gln
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5987

```
     1                 5                10                15

   Ile Asn Thr Glu Ile Val Gln Asn Val Thr Gly Pro Gly Gln Arg Thr
                20                25                30

   Asn Met Gly Ile Leu Phe Met Ser Lys Val Gly Leu Arg Gly Asp Arg
                35                40                45

   Arg Ser Glu Gly Asp Glu Val Leu Asp Pro Leu Arg Gln Ala Leu Asp
        50                55                60

   Ser Ser Met Gln Ser His Asn Leu Tyr Gln His Pro Gln Arg Leu Ala
   65                70                75                80

   Phe His Val Ser Ala Pro Val Ala Ser Thr Val Gln Gln Ala Ser Gly
                85                90                95

   Leu Leu Gly Pro Leu Pro His Leu Ser Ser Phe Ala Leu Gln Pro Ala
                100               105               110

   His Ser Leu Leu Pro Pro Leu Gly Ser His Gly Ala Xaa Xaa Ser
                115               120               125
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<210> 6756
<211> 61
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (59)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6756
Ser Phe Ala Ser Leu Gln Asn Val Gly Tyr Leu Ala Gly Asp Ala Lys
   1                 5                10                15

   Ile Leu Asn Asn Ile Asn Phe Ser Leu Arg Ala Gly Glu Phe Lys Leu
                20                25                30

   Ile Thr Gly Pro Ser Gly Cys Gly Lys Ser Thr Leu Leu Lys Ile Val
                35                40                45

   Ala Ser Leu Ile Ser Pro Thr Ser Gly Thr Xaa Thr Val
        50                55                60


<210> 6757
```

5988

```
<211> 57
<212> PRT
<213> Homo sapiens

<220>
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<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (57)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6757
Val Arg Asn Ser Arg Val Asp Pro Arg Val Arg Ser Phe Ala Xaa Met
 1               5                  10                  15

Glu Val Leu Xaa Trp Thr His Xaa Lys Glu Gln Leu Glu Thr Leu Arg
            20                  25                  30
```

5989

```
Lys Leu Xaa Arg Arg Glu Val Ala Xaa Gln Trp Leu Arg Pro Ala Glu
        35                  40              45

Xaa Asp His Leu Xaa Asp Ser Leu Xaa
    50                  55




<210> 6758
<211> 38
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6758
Xaa Cys Phe Thr Phe Xaa Gly Ile Phe Xaa Ala Ile Ile Leu Phe Pro
 1               5                  10                  15

Phe Gly Phe Ile Cys Cys Phe Ala Leu Arg Lys Arg Arg Cys Pro Asn
            20                  25                  30

Cys Gly Xaa Thr Phe Ala
        35




<210> 6759
<211> 43
<212> PRT
<213> Homo sapiens

<220>
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<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6759
Thr Ile Phe Xaa Gly His Ser Thr Val Xaa Lys Arg Cys Asp Trp His
  1           5              10              15

Leu Leu His Asn Ser Leu Tyr Gly Ser Val Ala Asp Asp Gln Asn Leu
         20          25              30

Xaa Tyr Gly Thr Gln Xaa Pro Ile Gln Leu Gln
         35          40


<210> 6760
<211> 87
<212> PRT
<213> Homo sapiens

<400> 6760
Gly Arg Phe Ala Gly Thr Gly Pro Glu Phe Pro Gly Arg Pro Thr Arg
  1           5              10              15

Pro Glu Asp Ala Glu Asp Arg Pro Pro Glu Leu Leu Phe Ile His Gly
         20          25              30

Gly His Thr Ala Lys Ile Ser Asp Phe Ser Trp Asn Pro Asn Glu Pro
         35          40              45

Trp Val Ile Cys Ser Val Ser Glu Asp Asn Ile Met Gln Ile Trp Gln
    50          55              60

Met Ala Glu Asn Ile Tyr Asn Asp Glu Glu Ser Asp Val Thr Thr Ser
 65          70              75              80
```

5991

```
Glu Leu Glu Gly Gln Gly Ser
                85


<210> 6761
<211> 151
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<221> SITE
<222> (57)
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<220>
<221> SITE
<222> (69)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (95)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (100)
<223> Xaa equals any of the naturally occurring L-amino acids
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5992

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<220>
<221> SITE
<222> (107)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (124)
<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE
<222> (128)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (146)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (149)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6761
Gly Asn Xaa Gly Thr Pro Ala Gly Thr Gly Pro Glu Phe Pro Gly Arg
 1               5                  10                  15

Pro Thr Arg Pro Pro Ser Trp Asp Leu Arg Ala Ser Phe Ser Xaa Leu
            20              25                  30

Leu Gln Asp Gly Val Asn Arg His Pro Arg Pro Pro Gly Xaa Ser
         35              40              45

Pro Arg Ser Leu Cys Arg Xaa Ala Xaa Gly Ala Val Arg Ser Arg Gly
     50              55                  60

Glu Lys Ala Arg Xaa Val Ser Glu Asp Leu Cys Lys Val Ser Gly Tyr
 65              70              75                  80

Ser Phe Thr Ser Tyr Trp Ile Lys Trp Val Arg Gln Met Pro Xaa Lys
             85              90                  95

Gly Leu Glu Xaa Met Ala Arg Ile Asp Pro Xaa Asp Ser Tyr Thr Asn
            100             105             110

Tyr Ser Pro Ser Phe Gln Gly His Val Thr Ile Xaa Ala Asp Lys Xaa
        115             120             125

Ile Ser Thr Ala Thr Cys Ser Gly Ala Ala Glu Gly Leu Gly His Arg
```

5993

                 130   135   140

His Xaa Leu Leu Xaa Gln Thr
145   150

<210> 6762
<211> 80
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (69)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (76)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (80)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6762
Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Xaa
  1   5   10   15

Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn
                20   25   30

Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser
            35   40   45

Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys
        50   55   60

Val Tyr Ala Cys Xaa Val Thr His Gln Gly Leu Xaa Ser Pro Val Xaa
65   70   75   80

5994

<210> 6763
<211> 131
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (107)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (109)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (121)
<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (126)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (127)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6763
Leu Leu Thr Met Arg Leu Pro Ala Gln Leu Leu Gly Leu Leu Met Leu
 1   5   10   15

Trp Val Ser Gly Ser Ser Gly Asn Ile Val Met Thr Gln Ser Pro Val
            20   25   30

Ser Leu Tyr Val Thr Pro Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser
        35   40   45

Ser Gln Thr Leu Leu His Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr
    50   55   60

Leu Gln Lys Pro Gly Gln Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser
65   70   75   80

Asn Arg Ala Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly
                85   90   95

5995

Thr Asp Phe Thr Leu Lys Ile Thr Arg Val Xaa Ala Xaa Asp Val Gly
            100   105   110

Gly Tyr Tyr Tyr Trp Met Gln Ala Xaa Gln Ile His Ser Xaa Xaa Ala
            115   120   125

Leu Asp Gln
    130

<210> 6764
<211> 69
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6764
Ser Thr Met Ala Trp Ala Pro Leu Leu Leu Thr Leu Leu Ala His Cys
    1   5   10   15

Thr Gly Ser Trp Ala Ile Phe Met Leu Thr Gln Pro His Ser Val Ser
            20   25   30

Glu Ser Pro Gly Lys Thr Val Thr Ile Ser Cys Thr Arg Ser Xaa Gly
            35   40   45

Lys His Cys Gln Gln Leu Cys Ala Val Val Pro Ala Ala Pro Gly Xaa
        50   55   60

Val Pro Pro Pro Leu
    65

<210> 6765
<211> 81
<212> PRT
<213> Homo sapiens

<220>
<221> SITE

5996

<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (53)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (70)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (73)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6765
Gly Xaa Ala Arg Gly Asn His Gly Asn Pro Ser Xaa Xaa Leu Phe Leu
 1   5   10   15

Leu Leu Leu Trp Leu Pro Asp Thr Thr Gly Glu Asn Xaa Leu Thr His
             20   25   30

Phe Pro Gly Thr Leu Xaa Phe Phe Pro Gly Glu Xaa Ala Thr Leu Ser

5997

```
              35                    40                    45
Cys Trp Ala Ser Xaa Ser Val Tyr Ser Ser Tyr Leu Ala Trp Tyr Gln
    50                    55                    60

Gln Lys Pro Gly Gln Xaa Pro Arg Xaa Leu Ile Tyr Gly Ala Ser Ser
65                    70                    75                    80

Arg
```

```
<210> 6766
<211> 44
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (43)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6766
Arg Xaa Asp Asp Pro Ser His Ser Ser Ala Ala Ser Val Gly Asp Arg
  1               5                    10                    15

Val Thr Ile Thr Cys Pro Gly Xaa Ser Glu His Xaa Gln Arg Cys Lys
              20                    25                    30

Leu Asp Gln Gln Thr Ile Trp Lys Ala Leu Xaa Ser
          35                    40
```

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<210> 6767
```

5998

```
<211> 56
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6767
Gln Ser Ser Thr Leu Gly Asn Val Ser Thr Met Ala Trp Ala Leu Leu
 1             5                  10                  15

Leu Leu Ser Leu Leu Thr Gln Gly Thr Gly Ser Trp Ala Gln Ser Ala
            20                  25                  30

Leu Thr Gln Pro Arg Ser Val Ser Gly Ser Pro Gly Gln Xaa Val Thr
            35                  40                  45

Ile Ser Cys Thr Gly Asn Gln Gln
        50                  55
```

```
<210> 6768
<211> 74
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (40)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6768
Ile Arg Gln Ser Arg Arg Gln Arg Ser Arg Val Val Ser Thr Met Ala
 1             5                  10                  15

Trp Xaa Leu Leu Phe Leu Thr Leu Leu Thr Gln Gly Thr Gly Ser Trp
            20                  25                  30

Ala Gln Ser Ala Leu Thr Gln Xaa Ala Ser Val Ser Gly Ser Pro Gly
            35                  40                  45

Thr Val Asp His His Leu Leu His Trp Glu Gln Val Val Thr Leu Val
        50                  55                  60
```

5999

```
Ala Ile Asn Tyr Val Phe Trp Tyr His Gln
 65                     70
```

```
<210> 6769
<211> 169
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (32)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (142)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (157)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (164)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6769
Lys Ala Gly Thr Pro Ala Gly Thr Gly Pro Glu Phe Pro Gly Arg Pro
 1               5                   10                  15

Thr Arg Pro Leu Phe Val Val Ala Ala Ala Thr Gly Val Leu Ser Xaa
                20              25                  30

Leu Gln Leu Val Gln Ser Gly Ala Glu Val Arg Lys Pro Gly Ser Ser
            35              40                  45

Val Asn Ile Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Arg Tyr Ala
        50              55                  60

Val Thr Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val Gly
 65                 70                  75                  80
```

6000

```
Gly Ile Thr Pro Val Tyr Gly Thr Thr His Tyr Ala Asp Asn Leu Arg
              85                  90                  95

Gly Arg Val Thr Ile Thr Ala Asp Lys Ser Thr Asn Ile Ala Tyr Met
              100                 105                 110

Glu Leu Lys Ser Leu Lys Phe Glu Asp Thr Ala Met Tyr Phe Cys Ala
          115                 120                 125

Arg Val His Asn Ser Tyr Asp Ser Ser Ala Leu Asn Trp Xaa Asp Pro
      130                 135                 140

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Xaa Xaa Thr Lys Gly
145                 150                 155                 160

Pro Ser Val Xaa Pro Leu Ala Pro Phe
              165
```

<210> 6770
<211> 82
<212> PRT
<213> Homo sapiens

<400> 6770
```
Asp Ser Ser Thr Ser Tyr Ser Ala Ser Phe Arg Gly His Val Ile Ile
  1               5                  10                  15

Ser Ala Asp Asn Ser Ile Ser Thr Ala Tyr Leu Gln Trp Ser Ser Leu
              20                  25                  30

Lys Ala Ser Asp Ser Ala Ile Tyr Phe Cys Ala Arg Pro Ile Ala Ser
          35                  40                  45

Val Lys Ala Arg Leu Val Ala Pro Ser Lys Asp Tyr Trp Gly Gln Gly
      50                  55                  60

Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe
  65                  70                  75                  80

Pro Leu
```

<210> 6771
<211> 141
<212> PRT
<213> Homo sapiens

6001

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (141)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6771
Gly Ser Pro Ser Xaa Glu Ile Pro Arg Ser Phe His Leu Val Ile Ser
  1   5   10   15

Thr Glu His Arg Pro Pro Thr Met Glu Phe Gly Leu Ser Trp Val Phe
              20   25   30

Leu Val Ala Ile Leu Lys Gly Val Gln Cys Glu Val Arg Leu Val Glu
          35   40   45

Ser Gly Gly Gly Leu Val Gln Pro Gly Arg Ser Leu Arg Leu Ser Cys
      50   55   60

Thr Thr Pro Gly Phe Thr Phe Asp Asp Tyr Ala Met Asn Trp Phe Arg
 65   70   75   80

Gln Ala Pro Gly Arg Gly Leu Glu Trp Val Gly Phe Ile Arg Ser Lys
                  85   90   95

Thr Tyr Gly Gly Thr Thr Gln Tyr Ala Ala Ala Val Lys Gly Arg Phe
              100   105   110

Thr Ile Ser Arg Asp Asp Ser Lys Ser Ile Val Tyr Leu Gln Met Asn
              115   120   125

Ser Leu Lys Thr Glu Asp Thr Ala Arg Val Leu Leu Xaa
      130   135   140

<210> 6772
<211> 118
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

6002

```
<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids


<220>
<221> SITE
<222> (54)
<223> Xaa equals any of the naturally occurring L-amino acids


<220>
<221> SITE
<222> (93)
<223> Xaa equals any of the naturally occurring L-amino acids


<220>
<221> SITE
<222> (111)
<223> Xaa equals any of the naturally occurring L-amino acids


<400> 6772
Ile Arg Xaa Ser Ser Thr Pro Tyr Thr Phe Gly Gln Gly Thr Lys Leu
  1               5                  10                  15

Glu Ile Lys Gly Thr Leu Ala Ala Pro Ser Val Phe Ile Leu Pro Pro
              20                  25                  30

Ser Asp Glu Gln Leu Lys Ser Gly Thr Ala Ser Xaa Val Cys Leu Leu
          35                  40                  45

Asn Asn Phe Tyr Pro Xaa Glu Ala Lys Val Gln Trp Lys Val Asp Asn
      50                  55                  60

Ala Leu Gln Ser Gly Asn Phe Gln Val Glu Cys His Arg Ala Gly Gln
 65                  70                  75                  80

Gln Gly Gln His Leu Gln Pro Gln Gln His Pro Asp Xaa Glu Gln Ser
                  85                  90                  95

Arg Leu Arg Gly Asn Thr Lys Phe Tyr Gly Cys Glu Phe Thr Xaa Gln
              100                 105                 110

Gly Leu Arg Leu Ala Arg
          115
```

```
<210> 6773
<211> 147
<212> PRT
<213> Homo sapiens
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6003

```
<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6773
Phe Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Xaa Glu Leu Leu
  1               5                  10                  15

Ile Tyr Ala Ala Ser Ala Leu Arg Gly Gly Val Pro Ser Arg Phe Ser
                20                  25                  30

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
            35                  40                  45

Pro Glu Asp Phe Ala Thr Tyr Phe Cys Gln Gln Ser Asp Asp Phe Pro
      50                  55                  60

Phe Ser Phe Gly Gln Gly Thr Arg Leu Glu Met Lys Arg Thr Val Ala
 65                  70                  75                  80

Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser
                85                  90                  95

Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu
            100                 105                 110

Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Thr Pro
            115                 120                 125

Arg Arg Val Ser Gln Ser Arg Thr Ala Arg Thr Ala Pro Thr Ala Ser
      130                 135                 140

Ala Ala Pro
145


<210> 6774
<211> 159
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
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6004

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<222> (82)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (114)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (117)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (118)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (119)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (127)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (130)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (136)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (137)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (138)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (139)
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6005

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (141)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (150)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (153)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (154)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (158)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (159)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6774
Asn Ser Ala Glu Xaa Asn Pro Ser Ala Phe Phe Ser Ser Cys Arg Ala
  1   5   10   15

Ser Gln Ser Val Ser Thr Arg Phe Val Ala Trp Tyr Gln Gln Lys Leu
                20   25   30

Gly Gln Ala Pro Arg Val Leu Ile Tyr Ser Thr Ser Ser Arg Ala Pro
            35   40   45

Gly Ile Pro Arg Thr Gly Ser Val Ala Val Gly Leu Gly Thr Glu Leu
        50   55   60

Ser Leu Leu Gln His Gln Arg Ala Trp Glu Pro Glu Asp Phe Ala Val
 65   70   75   80

Leu Xaa Leu Cys Asn Ser Tyr Arg Arg Ala Leu Gly His Phe Ser Gly
                85   90   95

6006

```
Gly Gly Asp Pro Arg Trp Glu Ile Glu Thr Glu Leu Trp Ala Cys Asn
            100             105             110

His Xaa Val Phe Xaa Xaa Xaa Pro Ala Ile Leu Ile Gly Ala Xaa Trp
        115             120             125

Lys Xaa Leu Gly Leu Ala Leu Xaa Xaa Xaa Xaa Pro Xaa Gly Lys Asn
        130             135             140

Phe Phe Phe Pro Gly Xaa Gly Gln Xaa Xaa Lys Gly Arg Xaa Xaa
145             150             155
```

```
<210> 6775
<211> 161
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (149)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6775
Ser Thr Met Ala Trp Ala Pro Leu Leu Leu Thr Leu Leu Ala His Cys
  1             5             10             15

Thr Gly Ser Trp Ala Ile Phe Met Leu Thr Gln Pro His Ser Val Ser
            20             25             30

Glu Pro Pro Gly Lys Thr Val Thr Ile Ser Cys Thr Arg Ser Ser Gly
        35             40             45

Ser Ile Ala Ser Asn Tyr Val Gln Trp Phe Gln Gln Arg Pro Gly Ser
        50             55             60

Ser Pro Thr Thr Val Ile Tyr Glu Asp Asn Gln Arg Pro Ser Gly Val
65             70             75             80

Pro Asp Arg Phe Ser Gly Ser Ile Asp Ser Ser Ser Asn Ser Ala Ser
            85             90             95

Leu Thr Ile Ser Gly Leu Lys Thr Glu Asp Glu Ala Asp Tyr Tyr Cys
            100             105             110

Gln Ser Tyr Asp Ser Ser Asn Val Val Phe Gly Gly Gly Thr Lys Leu
        115             120             125

Thr Val Leu Gly Gln Ala Gln Gly Leu Pro Leu Gly His Ser Val Pro
        130             135             140
```

6007

Ala Leu Leu Leu Xaa Ser Phe Lys Pro Thr Arg Pro His Trp Cys Val
145   150   155   160

Ser

<210> 6776
<211> 64
<212> PRT
<213> Homo sapiens

<400> 6776
Ala Pro Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser
  1   5   10   15

Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser
          20   25   30

Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn
          35   40   45

Thr Lys Val Asp Lys Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His
      50   55   60

<210> 6777
<211> 151
<212> PRT
<213> Homo sapiens

<220>
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<222> (84)
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<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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6008

<220>
<221> SITE
<222> (105)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (123)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
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<400> 6777
Glu Ala Ala Leu Val Val Pro Gln Pro Trp Pro Gly Pro Phe Ser Ser
 1   5   10   15

Ser Ala Ser Ser Leu Thr Ala Gln Ala Ser Val Thr Ser Tyr Val Leu
            20   25   30

Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Gln Thr Ala Arg Ile
        35   40   45

Thr Cys Gly Ala Asn Asn Ile Gly Ile Lys Asn Val His Trp Tyr Gln
    50   55   60

Gln Lys Pro Gly Gln Ala Pro Val Leu Val Val Tyr Asp Asp Lys Arg
65   70   75   80

Pro Ala Leu Xaa Asp Pro Xaa Arg Ile Phe Trp Phe Gln Leu Leu Gly
                85   90   95

Thr Xaa Ala Thr Leu Thr Ile Asn Xaa Val Glu Pro Gly Met Lys Pro
        100   105   110

Thr Ile Thr Val Arg Cys Gly Ile Leu Val Xaa Pro Arg Ser Val Arg
        115   120   125

Arg Xaa Asp Gln Thr Tyr Arg Leu Ile Asn Pro Arg Leu Pro Leu Gly
    130   135   140

His Ser Val Pro Pro Phe Xaa
145   150

6009

<210> 6778
<211> 134
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (114)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (122)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (127)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6778
Ala Gly Gly Lys Leu Cys Arg Asn Ile Ser Thr Met Ala Trp Ala Leu
 1   5   10   15

Leu Leu Leu Thr Leu Leu Thr Gln Gly Thr Gly Ser Trp Ala Gln Ser
            20   25   30

Ala Leu Thr Gln Pro Pro Ser Val Ser Gly Ser Pro Gly Gln Ser Val
            35   40   45

Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Arg
        50   55   60

Val Ser Trp Tyr Gln Gln Ser Pro Gly Thr Ala Pro Lys Leu Met Ile
65   70   75   80

Tyr Glu Val Ser Asn Arg Pro Ser Arg Val Pro Asp Arg Phe Ser Gly
                85   90   95

Ser Lys Ser Gly Asn Thr Gly Phe Leu Asp Ile Phe Trp Ala Pro Ser
            100   105   110

Leu Xaa Thr Lys Gly Glu Leu Leu Leu Xaa Ala Arg Ile Lys Xaa Ser
        115   120   125

Lys Phe Phe Phe Leu Phe
        130

6010

<210> 6779
<211> 58
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<220>
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<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6779
Gly Thr Xaa Leu Xaa Trp Phe His Gln Arg Pro Gly Gln Xaa Pro Arg
 1   5   10   15

Arg Leu Leu Tyr Lys Ile Ser Asn Arg Glu Leu Trp Arg Pro Xaa Gln
            20   25   30

Ile Xaa Arg Gln Trp Gly Gln Ala Leu Ile Cys Thr Leu Lys Ile Ser
        35   40   45

Arg Val Glu Ala Glu Asp Val Gly Ile Tyr
    50   55

<210> 6780
<211> 36
<212> PRT
<213> Homo sapiens

6011

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<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6780
His Lys Xaa Val Val Xaa Val Val Gln Tyr Ser Cys Ser Pro Gly Asp
 1               5                   10                  15

Pro Val Val Val Glu Arg Pro Pro Pro Arg Trp Ser Cys Gln Leu Phe
            20                  25                  30

Val Pro Xaa Lys
         35




<210> 6781
<211> 46
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (28)
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6012

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6781
Leu Gly Phe Phe Xaa Phe Phe Phe Xaa Glu Met Glu Xaa Val Pro Asn
 1               5                  10              15


Ser Cys Ser Pro Gly Asp Pro Leu Val Leu Glu Xaa Pro Pro Pro Arg
            20                  25                  30


Trp Arg Xaa Ser Phe Gly Ser Leu Leu Glu Arg Xaa Gln Ser
            35                  40                  45




<210> 6782
<211> 35
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6782
Xaa Val Pro Asn Ser Cys Ser Pro Gly Asp Pro Leu Val Leu Glu Arg
 1               5                  10              15


Pro Pro Xaa Arg Trp Ser Ser Ser Phe Ile Pro Xaa Glu Gly Val Asn
            20                  25                  30
```

6013

Ser Lys Lys
          35

<210> 6783
<211> 32
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6783
Xaa Asp Leu Val Pro Asn Ser Cys Ser Pro Gly Asp Pro Leu Val Leu
  1   5   10   15

Glu Arg Pro Pro Pro Arg Trp Xaa Pro Ala Phe Val Leu Leu Glu Arg
             20   25   30

<210> 6784
<211> 37
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

6014

<400> 6784
Gly His Gly Leu Xaa Leu Val Pro Asn Ser Cys Ser Pro Gly Asp Pro
 1   5   10   15

Leu Val Leu Glu Arg Pro Pro Pro Arg Trp Ser Ser Xaa Ala Leu Phe
            20   25   30

Pro Ile Ile Glu Xaa
        35

<210> 6785
<211> 36
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6785
His Gly Leu Val Pro Asn Ser Cys Ser Pro Gly Asp Pro Leu Val Leu
 1   5   10   15

Glu Arg Pro Pro Pro Arg Trp Ser Ser Xaa Xaa Cys Ser Gln Xaa Leu
            20   25   30

Arg Xaa Asn Trp
        35

<210> 6786

6015

```
<211> 36
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6786
Val Val Ser Val Trp Gly Leu Val Pro Asn Ser Cys Ser Pro Gly Asp
 1               5                   10                  15

Pro Leu Val Leu Glu Arg Pro Pro Pro Arg Trp Ser Xaa Ser Phe Val
            20                  25                  30

Pro Leu Val Arg
          35




<210> 6787
<211> 43
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6787
Leu Pro Leu Gln Ala Thr Cys Lys Ile Leu Gly Ala Lys Asp Gly Leu
 1               5                   10                  15

Val Pro Asn Ser Cys Ser Pro Gly Asp Pro Leu Val Leu Glu Arg Pro
            20                  25                  30

Pro Pro Arg Trp Ser Thr Ser Phe Xaa Pro Leu
            35                  40




<210> 6788
<211> 49
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
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6016

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6788
Xaa Leu Phe Phe Phe Phe Phe Phe Leu Xaa Glu Asn Asp Phe Ile Leu
  1   5   10   15

Ile Asn Leu Val Pro Asn Ser Cys Ser Pro Gly Asp Pro Leu Val Leu
            20   25   30

Glu Arg Ala Ser Pro Arg Trp Gly Pro Xaa Phe Val Ala Xaa Gly Ala
            35   40   45

Gly

<210> 6789
<211> 31
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6789
Thr Arg Pro Glu Phe Leu Gln Pro Gly Gly Ser Thr Ser Phe Arg Ala
  1   5   10   15

Pro Pro Arg Arg Trp Ser Ser Ser Phe Ile Pro Arg Glu Gly Xaa
            20   25   30

6017

```
<210> 6790
<211> 46
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6790
Xaa Glu Asp Leu Arg Leu Pro Glu Gly Asp Leu Gly Met Glu Ile Glu
 1               5                   10                  15

Gln Lys Tyr Asp Cys Gly Glu Glu Ile Leu Ile Thr Val Leu Ser Ala
            20                  25                  30

Met Thr Glu Glu Ala Ala Val Ala Ile Lys Ala Met Ala Lys
            35                  40                  45


<210> 6791
<211> 108
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (76)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (82)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (102)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (105)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6791
Glu Lys Met Val Leu Leu Thr Ala Val Leu Leu Leu Leu Ala Ala Tyr
 1               5                   10                  15
```

6018

Ala Gly Pro Ala Gln Ser Leu Gly Ser Phe Val His Cys Glu Pro Cys
              20   25   30

Asp Glu Lys Ala Leu Ser Met Cys Pro Pro Ser Pro Leu Gly Cys Glu
              35   40   45

Leu Val Lys Glu Pro Gly Cys Gly Cys Cys Met Thr Cys Ala Leu Ala
          50   55   60

Glu Gly Gln Ser Cys Gly Val Tyr Thr Glu Arg Xaa Ala Gln Gly Leu
65   70   75   80

Arg Xaa Leu Pro Arg Gln Asp Glu Glu Lys Pro Leu His Ala Leu Leu
                  85   90   95

His Gly Arg Gly Val Xaa Leu Asn Xaa Lys Ser Tyr
              100   105

<210> 6792
<211> 53
<212> PRT
<213> Homo sapiens

<400> 6792
Gln Arg Pro Cys Leu Trp Lys Val Leu Leu Gln Ala Lys Gly Ser His
 1   5   10   15

Pro Ser Arg Leu Gln Thr Thr Asp Asn Leu Leu Pro Met Ser Pro Glu
              20   25   30

Glu Phe Asp Glu Val Ser Arg Ile Val Gly Ser Val Glu Phe Asp Ser
              35   40   45

Met Met Asn Thr Val
        50

<210> 6793
<211> 98
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (72)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

6019

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<221> SITE
<222> (74)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (94)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (95)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (96)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6793
Ala Leu His Ser Leu Cys Gly Ala Arg Pro Pro Val Pro Val Met Ala
  1               5               10               15

Met Leu Arg Val Gln Pro Glu Ala Gln Ala Lys Val Asp Val Phe Arg
             20               25               30

Glu Asp Leu Cys Thr Lys Thr Glu Asn Leu Leu Gly Ser Tyr Phe Pro
             35               40               45

Lys Lys Ile Ser Glu Leu Asp Ala Phe Leu Lys Glu Pro Ala Leu Asn
     50               55               60

Glu Ala Asn Leu Ser Asn Leu Xaa Ala Xaa Trp Thr Ser Gln Cys Leu
 65               70               75               80

Ile Gln Ser Arg Arg Lys Arg Lys Arg Asn Gly Arg Asn Xaa Xaa Xaa
                 85               90               95

Lys Glu



<210> 6794
<211> 136
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (101)
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6020

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (122)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (128)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (135)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6794
Tyr Thr Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly
 1   5   10   15

Ser Thr His Ala Ser Ala Ser Gly His His Ser Gly Pro Ser Leu His
            20   25   30

Ala Glu Asn His Thr Ser Gln Thr Phe Thr Gln His Phe Leu Pro Gln
            35   40   45

Ser Gln Lys Met His Lys Glu Glu His Glu Val Ala Val Leu Gly Ala
        50   55   60

Pro Pro Ser Thr Ile Leu Pro Arg Ser Thr Val Ile Asn Ile His Ser
65   70   75   80

Glu Thr Ser Val Pro Asp His Val Val Trp Ser Leu Phe Asn Thr Leu
                85   90   95

Phe Leu Asn Trp Xaa Cys Leu Gly Phe Ile Ala Phe Ala Tyr Ser Val
            100   105   110

Lys Ser Arg Asp Arg Lys Met Val Gly Xaa Arg Asp Arg Gly Pro Xaa
        115   120   125

Leu Cys Leu His Arg Ser Xaa Ala
    130   135

<210> 6795
<211> 29
<212> PRT
<213> Homo sapiens

6021

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6795
Xaa Met Xaa Ile Ser Lys Pro His Phe Glu Lys Leu Phe Pro Ser Gln
 1   5   10   15

Cys Tyr Leu Cys Leu Leu Leu Asn Asn His Phe Leu Thr
            20   25

<210> 6796
<211> 48
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6796
Phe His Leu Ile Lys Ser Leu Lys Tyr Gln Thr Met Arg Xaa His Glu
 1   5   10   15

Xaa Thr Trp Ala Xaa Asn Leu Arg Tyr Xaa Lys Pro Asp Leu Asp Cys
            20   25   30

6022

Met Ala Gly Leu Arg Arg Phe Thr Leu Glu Leu Gln His Thr Tyr Trp
         35   40   45

<210> 6797
<211> 60
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (56)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6797
Ala Met Arg Cys Met Pro Val Trp Asn Gly Gln Thr Leu Thr Phe Val
  1   5   10   15

Gln Asp Arg Pro Ser Asp Lys Thr Trp Thr Tyr Asn Arg Xaa Asn Val
             20   25   30

Val Met Pro Asp Asp Gly Ala Pro Phe Arg Tyr Ser Phe Ser Ala Leu
         35   40   45

Lys Asp Arg His Asn Ala Leu Xaa Gly Glu Leu Asp
     50   55   60

<210> 6798
<211> 109
<212> PRT
<213> Homo sapiens

<400> 6798
Leu Ser Arg Ala Leu Ala Val Glu Leu Leu Asp Lys Val Asn Asn Pro
  1   5   10   15

Asp Asn His Ala His Tyr Thr Glu Ala Asp Asp Asp Phe Glu Pro
             20   25   30

6023

```
His Ala Ile Ile Arg His Thr Ile Arg Ser Thr Asn Arg Asn Ala Arg
         35                40                45

Ala Glu Arg Thr Ala Ser Glu Ile Asn Phe Asp Lys Leu Gln Phe Glu
    50                55                60

Pro Pro Leu Arg Lys Glu Thr Glu Ala Arg Asp Glu Met Gly Leu Ser
65                70                75                80

Ser Arg Pro Lys Phe His Val Tyr Ser Gly Ile Leu Leu Leu Met Val
            85                90                95

Gln Ile Leu Ala Asn His Leu Lys Thr Leu Gln Tyr His
         100                105
```

```
<210> 6799
<211> 69
<212> PRT
<213> Homo sapiens

<400> 6799
Phe Asn Leu Ile Ser Pro Ser Ile Ser Arg Tyr Cys Lys Lys Pro Leu
  1              5                10                15

Thr Ser Asn Cys Thr Ile Gln Ile Ala Thr Pro Gly Lys Gly Lys Lys
            20                25                30

Ser Thr Pro Lys Pro Ile Pro Ile Leu Ala Ala Gly Phe Cys Ser Asp
         35                40                45

Lys Met Ser Leu Leu Leu Val Tyr Gly Ser Trp Phe Gln Pro Thr Ile
    50                55                60

Glu Arg Val Val Arg
65
```

```
<210> 6800
<211> 54
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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6024

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<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (54)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6800
Ala Lys Gly Glu Leu Gln Leu Xaa Met Leu Glu Ile Val His Pro Xaa
 1               5                  10                  15

Xaa Val Glu Lys His Tyr Arg Glu Met Glu Glu Lys Leu Ala Leu Ile
             20                  25                  30

Ile Gln Lys His Trp Lys Gly Ser Gly Lys Gly Lys Ile Xaa Thr Asn
         35                  40                  45

Xaa Ser Xaa Leu Leu Xaa
     50


<210> 6801
<211> 42
<212> PRT
<213> Homo sapiens

<400> 6801
Lys Ile Leu Phe Val Cys Ser Val Lys Leu Ser Leu Tyr Val Cys Leu
```

6025

```
    1                5                  10                   15

Leu Gln Leu Ser Pro Phe Val Tyr Ser Glu Phe Ala Arg Glu Arg Asn
             20                  25                   30

Leu His Val Ser Leu Leu Asp Pro Thr Leu
         35                  40
```

<210> 6802
<211> 174
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (168)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (172)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6802

```
Ser Asp Gln Asp Leu Asn Arg Met Arg Ser Glu Leu Leu Val Pro Gly
    1                5                  10                   15

Ser Gln Leu Ile Leu Gly Pro His Glu Ser Lys Ile Pro Ile Leu Leu
             20                  25                   30

Ile Gln Gln Pro Gly Lys Val Thr Gly Glu Asp Arg Leu Gly Trp Gly
         35                  40                   45

Ser Gly Trp Asp Val Leu Leu Pro Lys Gly Trp Gly Met Ala Phe Trp
    50                  55                   60

Ile Pro Phe Ile Tyr Arg Gly Val Arg Val Gly Gly Leu Lys Glu Ser
65                  70                   75                   80

Ala Val His Ser Gln Tyr Lys Arg Ser Pro Asn Val Pro Gly Asp Phe
             85                  90                   95

Pro Asp Cys Pro Ala Gly Met Leu Phe Ala Glu Glu Gln Ala Lys Asn
         100                 105                 110

Leu Leu Glu Lys Tyr Lys Arg Arg Pro Pro Ala Lys Arg Pro Asn Tyr
         115                 120                 125

Val Lys Leu Gly Thr Leu Ala Pro Phe Cys Cys Pro Trp Glu Gln Leu
```

6026

```
           130                      135                      140

Thr Gln Asp Trp Glu Ser Arg Val Gln Ala Tyr Glu Glu Pro Ser Val
145                      150                      155              160

Ala Ser Ser Pro Asn Gly Lys Xaa Ser Asp Leu Xaa Lys Ile
                 165                      170
```

<210> 6803
<211> 122
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (105)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (112)
<223> Xaa equals any of the naturally occurring L-amino acids

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<400> 6803
Arg Gln Val Leu Val Leu Phe Ile Asp Glu Ala Ser Gln Lys Met Ser
  1               5                   10                      15

Lys Gln Gln Pro Thr Gln Phe Ile Asn Pro Glu Thr Pro Gly Tyr Val
                 20                  25                      30

Gly Phe Ala Asn Leu Pro Asn Gln Val His Arg Lys Ser Val Lys Lys
             35                  40                      45

Gly Phe Glu Phe Thr Leu Met Val Val Gly Glu Ser Gly Leu Gly Lys
         50                  55                      60

Ser Thr Leu Ile Asn Ser Leu Phe Leu Thr Asp Leu Tyr Pro Glu Arg
 65                  70                  75                      80

Val Ile Pro Gly Ala Ala Glu Lys Ile Glu Arg Thr Val Gln Ile Glu
                 85                  90                      95

Ala Ser Thr Val Glu Ile Glu Glu Xaa Gly Val Lys Leu Arg Leu Xaa
             100                 105                     110

Ser Gly Arg Tyr Pro Trp Leu Trp Val Thr
             115                 120
```

6027

<210> 6804
<211> 115
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (63)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (100)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (103)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6804
Trp Xaa Pro Arg Ala Ala Gly Ile Arg His Glu Gly Arg Ser Gly Ala
  1   5   10   15

Val Asp Lys Arg Ala Arg Glu Ala Gly Asn Ile Asn Gln Ser Leu Leu
            20   25   30

Thr Leu Gly Arg Val Ile Thr Ala Leu Val Glu Arg Thr Pro His Val
            35   40   45

Pro Tyr Arg Glu Ser Lys Leu Thr Arg Ile Leu Gln Asp Ser Xaa Gly
    50   55   60

Gly Arg Thr Arg Thr Ser Ile Ile Ala Thr Ile Ser Pro Ala Ser Leu
65   70   75   80

Asn Leu Glu Glu Thr Leu Ser Thr Leu Glu Tyr Ala His Arg Ala Lys
                85   90   95

Asn Ile Leu Xaa Lys Pro Xaa Val Asn Gln Lys Leu Thr Lys Lys Ala
                100   105   110

Leu Ile Lys
        115

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<210> 6805
<211> 19
<212> PRT
<213> Homo sapiens

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6805
Val Trp Lys Arg His Ser Arg Met Ser Tyr Leu Xaa Val Pro Tyr Val
 1               5                  10                  15

Thr His Ser



<210> 6806
<211> 146
<212> PRT
<213> Homo sapiens

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6806
Arg Thr Thr Val Thr Glu Val Ser Arg Ala Phe Ser Leu Leu Cys Lys
 1               5                  10                  15

Met Ala Thr Leu Lys Glu Lys Leu Ile Ala Pro Val Ala Glu Glu Glu
```

6029

```
                20                      25                      30
Ala Thr Val Pro Asn Asn Lys Ile Thr Val Val Gly Val Gly Gln Val
        35                  40                  45

Gly Met Ala Cys Ala Ile Ser Ile Leu Gly Lys Ser Leu Ala Asp Glu
    50                  55                  60

Leu Ala Leu Val Asp Val Leu Glu Asp Lys Leu Lys Gly Glu Met Met
65                  70                  75                      80

Asp Leu His His Gly Ser Leu Phe Leu Xaa Thr Pro Lys Ile Val Ala
                85                  90                      95

Asp Lys Asp Tyr Ser Val Thr Ala Xaa Ser Lys Ile Val Val Val Thr
            100                 105                 110

Ala Xaa Val Arg Gln Gln Glu Gly Glu Ser Arg Leu Asn Leu Val Gln
        115                 120                 125

Arg Asn Val Asn Val Phe Lys Phe Ile Ile Pro Gln Ile Val Lys Tyr
    130                 135                 140

Xaa Ser
145
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<210> 6807
<211> 175
<212> PRT
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6030

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6032

<400> 6807
Leu Xaa Pro Ala Xaa Xaa Gly Pro Glu Phe Pro Gly Arg Pro Thr Arg
 1   5   10   15

Pro Thr Ser Ser Ser Ser Arg Ala Ala Ala Leu Glu Asp Xaa Arg Leu
            20   25   30

Arg Thr Gln Pro Cys Gln Xaa Xaa Ala Xaa Xaa Xaa Gly Xaa Xaa Xaa
        35   40   45

Xaa Xaa Xaa Xaa Ala Ala Val Xaa Gln Arg Arg Asp Trp Glu Asn Pro
    50   55   60

Gly Val Thr Gln Leu Asn Arg Leu Ala Xaa His Pro Pro Phe Ala Ser
65   70   75   80

Trp Arg Asn Ser Glu Glu Ala Arg Thr Asp Arg Pro Ser Gln Gln Leu
            85   90   95

Arg Ser Leu Asn Gly Glu Trp Asp Ala Pro Cys Ser Gly Ala Leu Ser
            100   105   110

Ala Xaa Gly Val Val Val Thr Arg Ser Val Thr Ala Thr Leu Ala Ser
        115   120   125

Ala Leu Ala Pro Ala Pro Phe Ala Xaa Phe Pro Ser Phe Xaa Xaa Thr
    130   135   140

Phe Ala Gly Phe Pro Arg Gln Ala Leu Asn Arg Gly Leu Pro Leu Gly
145   150   155   160

Phe Arg Xaa Ser Ala Leu Arg His Leu Asp Xaa Lys Lys Leu Asp
                165   170   175

<210> 6808
<211> 46
<212> PRT
<213> Homo sapiens

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<220>
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6033

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<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids


<400> 6808
Xaa Xaa Lys Ser Trp Cys Ser Thr Ala Val Ala Xaa Ala Leu Glu Leu
 1               5                  10                  15


Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Glu Cys Gln Val Ile
            20                  25                  30


Val Ser Gln Pro Ile Ile Phe Lys Thr Glu Thr Pro Ser Asn
            35                  40                  45




<210> 6809
<211> 91
<212> PRT
<213> Homo sapiens


<220>
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<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids


<220>
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<223> Xaa equals any of the naturally occurring L-amino acids


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<223> Xaa equals any of the naturally occurring L-amino acids


<220>
<221> SITE
<222> (85)
<223> Xaa equals any of the naturally occurring L-amino acids


<400> 6809
Leu Leu Xaa Met Arg Leu Pro Ala Gln Leu Leu Xaa Leu Leu Met Leu
 1               5                  10                  15


Trp Val Ser Gly Ser Ser Gly Asn Ile Val Met Thr Gln Ser Pro Leu
            20                  25                  30


Ser Leu Pro Val Thr Pro Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser
            35                  40                  45
```

6034

```
Ser Gln Thr Leu Leu His Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr
     50              55              60

Leu Gln Lys Pro Gly Gln Ser Xaa Gln Leu Leu Ile Tyr Leu Gly Ser
65              70              75              80

Asn Arg Ala Phe Xaa Gly Ser Leu Thr Gly Phe
             85              90
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<210> 6810
<211> 137
<212> PRT
<213> Homo sapiens

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6810
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Xaa Xaa Ile Cys Glu Leu Pro Leu Lys Leu Val Arg Pro Ala Gly Thr
 1               5               10              15

Gly Pro Glu Phe Pro Gly Arg Pro Thr Arg Pro Xaa Leu Ser Tyr Asn
             20              25              30

Lys Leu Lys Asn Ile Pro Thr Val Asn Glu Asn Leu Glu Asn Tyr Tyr
         35              40              45

Leu Glu Val Asn Gln Leu Glu Lys Phe Asp Ile Lys Ser Phe Cys Lys
     50              55              60

Ile Leu Gly Pro Leu Ser Tyr Ser Lys Ile Lys Gln Lys Leu Phe Met
 65              70              75              80

Ser Ile Ala Ser Gln Lys Pro Val Phe His Arg Ile Cys Met Asn Val
             85              90              95
```

6035

Tyr Val Leu Leu Thr Lys Ser Leu Leu Ile Asn Ile Cys Ile Leu Glu
        100   105   110

Gln Tyr Phe Met Val Met Phe Phe Cys Val Ser Val Phe Ile Val Ser
        115   120   125

Ile Phe Tyr Tyr Cys Leu Leu Leu Pro
    130   135

<210> 6811
<211> 142
<212> PRT
<213> Homo sapiens

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (138)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6811
Pro Arg Val Arg Ala Val Met Ala Pro Arg Thr Leu Leu Leu Leu Leu
   1   5   10   15

Leu Gly Ala Leu Ala Leu Thr Gln Thr Trp Ala Gly Ser His Ser Met

6036

```
            20                     25                      30
Arg Tyr Phe Thr Thr Ser Val Ser Arg Pro Gly Arg Gly Glu Pro Arg
        35                     40                      45

Phe Ile Ala Val Gly Tyr Val Asp Asp Thr Gln Phe Val Arg Phe Asp
        50                     55                      60

Ser Asp Ala Xaa Ser Gln Arg Met Glu Pro Arg Ala Pro Trp Ile Glu
    65                     70                      75               80

Gln Glu Arg Pro Glu Tyr Trp Asp Gln Glu Thr Arg Asn Val Lys Ala
                85                     90                      95

His Ser Gln Ile Asp Arg Val Asp Leu Gly Thr Leu Arg Gly Tyr Tyr
                100                    105                     110

Asn Gln Ser Glu Ala Gly Ser Xaa Thr Xaa Xaa Met Met Tyr Gly Cys
            115                    120                     125

Xaa Val Gly Phe Gly Arg Ala Leu Pro Xaa Arg Val Pro Thr
    130                    135                     140
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<210> 6812
<211> 130
<212> PRT
<213> Homo sapiens

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<221> SITE
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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6812
Glu Ala Cys Xaa Asp Leu Ala Lys Glu Gln Gly Pro Tyr Glu Thr Tyr
1                   5                   10                      15

Glu Gly Ser Pro Val Ser Lys Gly Ile Leu Gln Tyr Asp Met Trp Asn
                20                     25                      30

Val Thr Pro Thr Asp Leu Trp Asp Trp Lys Val Leu Lys Glu Lys Ile
            35                     40                      45

Ala Lys Tyr Gly Ile Arg Asn Ser Leu Leu Ile Ala Pro Met Pro Thr
```

6037

```
            50                    55                    60

Ala Ser Thr Ala Gln Ile Leu Gly Asn Asn Glu Ser Ile Glu Pro Tyr
65                  70                  75                  80

Thr Ser Asn Ile Tyr Thr Arg Arg Asp Leu Ser Gly Glu Phe Gln Ile
                85                  90                  95

Val Asn Pro His Leu Leu Lys Asp Leu Thr Glu Arg Gly Leu Trp His
            100                 105                 110

Glu Glu Met Lys Asn Gln Ile Ile Ala Cys Asn Gly Ser Ile Xaa Ser
        115                 120                 125

Ile Pro
    130
```

<210> 6813
<211> 61
<212> PRT
<213> Homo sapiens

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

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<220>
<221> SITE

6038

<222> (61)
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<400> 6813
Thr Met Gln Ala Xaa Asp Asn Ile Thr Xaa Ala Arg Leu Leu Gln Gln
 1   5   10   15

Glu Val Leu Gln Asn Val Ser Asp Ala Glu Ser Cys Tyr Leu Val His
            20   25   30

Thr Leu Leu Glu Phe Tyr Leu Lys Thr Val Phe Lys Asn Tyr His Asn
        35   40   45

Arg Thr Val Glu Val Arg Asp Xaa Xaa Xaa Ile Leu Xaa
    50   55   60

<210> 6814
<211> 72
<212> PRT
<213> Homo sapiens

<220>
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<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (59)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (70)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6814
Lys Thr Gln Glu Thr Thr Ser Ile Ser Val Thr His Phe Leu Ser Phe
 1   5   10   15

Leu Thr Gly Phe Trp Lys Leu Ala Ile Cys Met Ala Lys Thr Asp Leu
            20   25   30

Ser Leu Xaa His Gln Pro Asp Lys Lys Gly Val Pro Arg Asp Xaa Ile

6039

```
                35                    40                    45

Leu Pro Ile Ser Asp Val Arg Ala Ser Ile Xaa Ala Trp Gly Gln Leu
    50                    55                    60


Pro Leu Val Gly Thr Xaa His His
65                    70




<210> 6815
<211> 209
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
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<220>
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<400> 6815
Gly Asp Gln Pro Thr Ala Xaa Cys Xaa Cys Ile Gln Arg Gln Val Pro
  1                 5                  10                    15


Pro Val Pro Ala Ala Arg Ala Pro Gln Ser Arg Thr Arg Ser Ala Gln
              20                  25                    30
```

6040

```
Ala Lys Leu Ala Leu Thr Met Pro Val Lys Gly Gly Thr Lys Cys Ile
        35                  40                  45

Lys Tyr Leu Leu Phe Gly Phe Asn Phe Ile Phe Trp Leu Ala Gly Ile
        50                  55                  60

Ala Val Leu Ala Ile Gly Leu Trp Leu Arg Phe Asp Ser Gln Thr Lys
 65                  70                  75                  80

Ser Ile Phe Glu Gln Glu Thr Asn Asn Asn Asn Ser Ser Phe Tyr Thr
                85                  90                  95

Gly Val Tyr Ile Leu Ile Gly Ala Gly Ala Leu Met Met Leu Val Gly
            100                 105                 110

Phe Leu Gly Cys Cys Gly Ala Val Gln Glu Ser Gln Cys Met Leu Gly
        115                 120                 125

Leu Phe Phe Gly Phe Leu Leu Val Ile Phe Ala Ile Glu Ile Ala Ala
        130                 135                 140

Ala Ile Trp Gly Tyr Ser His Lys Asp Glu Val Ile Lys Glu Val Gln
145                 150                 155                 160

Glu Phe Tyr Lys Asp Thr Tyr Asn Lys Leu Lys Thr Lys Asp Glu Pro
                165                 170                 175

Gln Arg Glu Thr Leu Lys Ala Ile His Tyr Ala Leu Asn Cys Xaa Gly
                180                 185                 190

Xaa Gly Trp Gly Ala Trp Lys Gln Xaa Tyr Leu Lys Lys Xaa Trp Pro
        195                 200                 205

Gln
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<210> 6816
<211> 123
<212> PRT
<213> Homo sapiens

<220>
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<220>
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<222> (114)

6042

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (117)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6816
Val Glu Xaa Asn Ser Pro Xaa Xaa Arg Xaa Leu Leu Gln Ile Leu Leu
 1   5   10   15

Ser Phe Ala Ser Gly Gly Leu Leu Gly Asp Ala Phe Leu His Leu Ile
            20   25   30

Pro His Ala Leu Glu Pro His Ser His His Thr Leu Glu Gln Pro Gly
        35   40   45

His Gly His Ser His Ser Gly Gln Gly Pro Ile Leu Ser Val Gly Leu
    50   55   60

Xaa Xaa Leu Xaa Gly Ile Xaa Ala Phe Xaa Asp Val Glu Lys Phe Xaa
65   70   75   80

Arg His Val Lys Gly Gly His Gly His Ser His Gly His Gly His Ala
            85   90   95

His Ser His Thr Arg Gly Ser His Gly His Gly Arg Xaa Glu Arg Ser
            100   105   110

Thr Xaa Glu Lys Xaa Ile Ser Glu Glu Glu Asp
        115   120

<210> 6817
<211> 137
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6817
Xaa Asp Ile Glu Phe Ile Tyr Thr Ala Pro Ser Ser Ala Val Cys Gly
 1   5   10   15

Val Ser Leu Asp Val Gly Gly Lys Lys Glu Tyr Leu Ile Ala Gly Lys
            20   25   30

6043

Ala Glu Gly Asp Gly Lys Met His Ile Thr Leu Cys Asp Phe Ile Val
        35   40   45

Pro Trp Asp Thr Leu Ser Thr Thr Gln Lys Lys Ser Leu Asn His Arg
        50   55   60

Tyr Gln Met Gly Cys Glu Cys Lys Ile Thr Arg Cys Pro Met Ile Pro
 65   70   75   80

Cys Tyr Ile Ser Ser Pro Asp Glu Cys Leu Trp Met Asp Trp Val Thr
                85   90   95

Glu Lys Asn Ile Asn Gly His Gln Ala Lys Phe Phe Ala Cys Ile Lys
                100   105   110

Arg Ser Asp Gly Ser Cys Ala Trp Tyr Arg Gly Ala Ala Pro Pro Lys
         115   120   125

Gln Glu Phe Leu Asp Ile Glu Asp Pro
    130   135

<210> 6818
<211> 158
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (124)
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<220>
<221> SITE
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (147)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6818
Pro Arg Ala Arg Pro Ala Ala Pro Ala Ala Ala Pro Gly Pro Leu Ala
 1   5   10   15

Ala Ala Thr Met Asp Ala Ile Lys Lys Lys Met Gln Met Leu Lys Leu
            20   25   30

Asp Lys Glu Asn Ala Leu Asp Arg Ala Glu Gln Ala Glu Ala Asp Lys

6044

```
              35                    40                    45

Lys Ala Ala Glu Asp Arg Ser Lys Gln Leu Glu Asp Glu Leu Val Ser
        50                    55                    60


Leu Gln Lys Lys Leu Lys Gly Thr Glu Asp Glu Leu Asp Lys Tyr Ser
 65                    70                    75                    80


Glu Ala Leu Lys Asp Ala Gln Glu Lys Leu Glu Leu Ala Glu Lys Lys
                85                    90                    95


Ala Thr Asp Ala Glu Ala Asp Val Ala Ser Leu Asn Arg Arg Ile Gln
            100                   105                   110


Leu Val Glu Glu Glu Val Trp Ile Val Pro Lys Xaa Arg Ser Gly Asn
        115                   120                   125


Ser Phe Ala Glu Thr Trp Xaa Lys Leu Glu Lys Ala Ala Asp Glu Ser
        130                   135                   140


Glu Arg Xaa Met Lys Val Ile Glu Lys Ser Ser Pro Lys Arg
145                   150                   155
```

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<210> 6819
<211> 37
<212> PRT
<213> Homo sapiens

<400> 6819
Cys Lys Met Phe Ala Cys Ala Lys Leu Ala Cys Thr Pro Ser Leu Ile
 1               5                   10                  15


Arg Ala Gly Ser Ile Val Ala Tyr Arg Pro Ile Ser Ala Ser Val Phe
                20                  25                  30


Ile Ser Thr Arg Ser
            35
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<210> 6820
<211> 183
<212> PRT
<213> Homo sapiens

<220>
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<222> (148)
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6045

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<222> (160)
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<220>
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<222> (180)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6820
Glu Asn Val Leu Lys Thr Ser Gly Lys Leu Arg Glu Asn Leu Leu His
 1               5                  10                  15

Gly Ala Leu Glu His Tyr Val Asn Cys Leu Asp Leu Val Asn Lys Arg
            20                  25                  30

Leu Pro Tyr Gly Leu Ala Gln Ile Gly Val Cys Phe His Pro Val Phe
            35                  40                  45

Asp Thr Lys Gln Ile Arg Asn Gly Val Lys Ser Ile Gly Glu Lys Thr
    50                  55                  60

Glu Ala Ser Leu Val Trp Phe Thr Pro Pro Arg Thr Ser Asn Gln Trp
 65                 70                  75                  80

Leu Asp Phe Trp Leu Arg His Arg Leu Gln Trp Trp Arg Lys Phe Ala
            85                  90                  95

Met Ser Pro Ser Asn Phe Ser Ser Ser Asp Cys Gln Asp Glu Glu Gly
            100                 105                 110

Arg Lys Gly Asn Lys Leu Tyr Tyr Asn Phe Pro Leu Gly Lys Gly Val
            115                 120                 125

Asn Arg Asn Pro Val Glu Pro Lys Arg Ser Glu Leu Leu His Met Tyr
    130                 135                 140

Pro Gly Asn Xaa Ala Lys Leu Pro Trp Pro Lys Trp Thr Lys Lys Xaa
145                 150                 155                 160
```

6046

```
Gly Ser Leu Gly Ser Ser Leu Glu Met Gly Thr Xaa Thr Arg Gly Met
              165                 170                 175

Leu Xaa Asn Xaa Met Ile Leu
           180
```

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<210> 6821
<211> 109
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
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<220>
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<222> (9)
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<220>
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<220>
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<220>
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<222> (49)
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<220>
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<220>
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<222> (58)
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<220>
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<220>
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<222> (97)
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6048

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6821
Glu Leu Leu Ser Ser Arg Xaa Leu Xaa Ala Lys Xaa Xaa Gly Xaa Ser
 1   5   10   15

Xaa Xaa Ser His Arg Ala Leu Gln Gly Thr Ile Ala Xaa Asn Xaa Glu
            20   25   30

Thr Asp Met Gln Val Leu Glu Lys Leu Ser Gly Lys Leu Xaa Glu Arg
        35   40   45

Xaa Leu Lys Asp Phe Xaa Met Ile Arg Xaa Met Lys Xaa Lys Leu Asn
    50   55   60

Pro Gln Asn Ser Xaa Val Met Pro Trp Asp Pro Xaa Tyr Tyr Ser Gly
65   70   75   80

Val Ile Arg Ala Glu Arg Xaa Asn Ile Glu Pro Ser Leu Tyr Cys Pro
                85   90   95

Xaa Phe Xaa Leu Gly Ala Cys Met Glu Ser Leu Asn Ile
            100   105

<210> 6822
<211> 144
<212> PRT
<213> Homo sapiens

<220>
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<222> (3)
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<222> (143)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6822
Arg Thr Xaa Ala Xaa Gly Glu Arg Ala Cys Arg Ser Thr Leu Val Asp
  1   5   10   15

Pro Lys Xaa Val Xaa Thr Val Phe Ser Leu Gly Ala Cys Met Glu Gly
             20   25   30

Leu Asn Ile Leu Leu Asn Arg Leu Leu Gly Ile Ser Leu Tyr Ala Glu
         35   40   45

Gln Pro Ala Lys Gly Glu Val Trp Ser Glu Asp Val Arg Lys Leu Ala
     50   55   60

Val Val His Glu Ser Glu Gly Leu Leu Gly Tyr Ile Tyr Cys Asp Phe
 65   70   75   80

Phe Gln Arg Ala Asp Lys Pro His Gln Asp Cys His Phe Thr Ile Arg
             85   90   95

Gly Gly Arg Leu Lys Gly Arg Trp Glu Thr Xaa Gln Leu Pro Val Val
             100   105   110

6050

Ser Ser Tyr Ala Gly Ile Phe Pro Val Pro Xaa Arg Glu Phe Ser Asn
        115   120   125

Phe Gly Xaa Xaa Leu Gly Met Met Gly Lys Pro Phe Pro Gly Xaa Gly
    130   135   140

<210> 6823
<211> 100
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6823
Ala Xaa Ser Ser Leu Trp Glu Ser Lys Pro Arg Xaa Gly Thr Glu Ala
  1   5   10   15

Ser Glu Leu Leu Pro Thr Leu Asp Thr Lys Ala Pro Thr Gly Arg Arg
            20   25   30

Thr Lys Pro Trp Gly Arg Leu Lys Arg Arg Ala Arg Ser Pro Gln Gly
        35   40   45

Gln Thr Ala Lys Pro Gln Ser Cys Cys Gly Ala Glu His Arg Gly Pro
    50   55   60

Gln Ala Leu Arg Lys Gly Arg Gly Asp Pro Gly Ala Arg Glu Arg Ser
  65   70   75   80

Pro Arg Ala Ile Ser Arg Ala Gly Arg Arg Glu Pro Arg Ala Val His
                85   90   95

Ser Cys Gly Leu
            100

6051

```
<210> 6824
<211> 109
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (92)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (98)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (107)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6824
Phe Lys Arg Glu Thr Gly Val Asp Leu Thr Lys Asp Asn Met Ala Leu
  1               5                  10                  15

Gln Arg Val Arg Glu Ala Ala Glu Lys Ala Lys Cys Glu Leu Ser Ser
            20                  25                  30

Ser Val Gln Thr Asp Ile Asn Leu Pro Tyr Leu Thr Met Asp Ser Ser
            35                  40                  45

Gly Pro Lys His Leu Asn Met Lys Leu Thr Arg Ala Gln Phe Glu Gly
      50                  55                  60

Ile Val Thr Asp Leu Ile Arg Arg Thr Ile Ala Pro Cys Gln Lys Ala
 65                  70                  75                  80

Met His Asp Ala Glu Val Ile Leu Ser Asp Ile Xaa Glu Val Xaa Pro
                85                  90                  95

Val Xaa Gly Met Thr Arg Met Pro Met Phe Xaa Arg Leu
          100                 105


<210> 6825
<211> 48
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6052

```
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6825
Ala Arg Glu Xaa Thr Lys Lys Leu Arg Glu Gln Gly Ser Leu Leu Gly
  1           5                  10                  15


Lys Leu Val Gln Asn Gly Thr Glu Pro Ser Ser Leu Pro Phe Leu Asp
             20                  25                  30


Pro Asn Ala Arg Pro Leu Val Pro Glu Val Ser Ile Lys Val Gln Arg
            35                  40                  45




<210> 6826
<211> 69
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (55)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (61)
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (67)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6826
Thr Ala Leu Asn Asn Leu Xaa Pro Asn Tyr Ala Xaa Glu Lys Leu Gln
 1   5   10   15

Gln Gln Phe Asn Met His Val Phe Lys Leu Glu Gln Glu Glu Tyr Met
            20   25   30

Lys Glu Asp Ile Pro Trp Thr Leu Ile Asp Phe Tyr Asp Xaa Gln Pro
            35   40   45

Val Phe Asp Leu Ile Glu Xaa Lys Trp Glu Ser Trp Xaa Phe Trp Xaa
    50   55   60

Lys Asn Xaa Cys Phe
 65

<210> 6827
<211> 96
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (85)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (92)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (94)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6827

6054

```
Cys Leu Ser Trp Glu Arg Arg Gly Pro Ser Ser Ala Pro Pro Thr Val
 1               5                  10                  15

Trp Glu Thr Val Pro Ser Pro Leu Leu Gly Ser Lys His Leu Phe Pro
            20                  25                  30

Val Leu Met Glu Ser Trp Cys Leu Ser Pro Ser Ala Ala Gln Lys Leu
        35                  40                  45

Cys Arg Leu Leu Gly Leu Gly Val Thr Asp Phe Ser Arg Ala Leu Leu
    50                  55                  60

Thr Pro Arg Ile Lys Val Gly Arg Asp Tyr Val Gln Lys Ala Gln Thr
65                  70                  75                  80

Lys Glu Gln Val Xaa Gly Ala Gly Gly Gly Gln Xaa Thr Xaa Arg Ala
            85                  90                  95
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<210> 6828
<211> 39
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (32)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6828
```
Leu Glu Asp Leu His Asp Leu Leu Ala Ser Leu Xaa Asn Asn Ala Xaa
 1               5                  10                  15
```

6055

```
Asp Asp Tyr Leu Asn Ala Met Xaa Ser Glu Ala Pro Met Pro Ile Xaa
            20                  25              30

Phe Ala Met Phe Leu Thr Met
        35
```

```
<210> 6829
<211> 136
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (134)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6829
Lys Val Leu Met Arg Asn Leu Ala Leu Pro Glu Asp Val Arg Gly Lys
  1               5               10              15

Cys Thr Ser Leu Leu Gln Leu Tyr Asp Ala Ser Asn Ser Glu Trp Gln
            20              25              30

Leu Gly Lys Thr Lys Val Phe Leu Arg Glu Ser Leu Glu Gln Lys Leu
        35              40              45

Glu Lys Arg Arg Glu Glu Glu Val Ser His Ala Ala Met Val Ile Arg
    50              55              60

Ala His Val Leu Gly Phe Leu Ala Arg Lys Gln Tyr Arg Lys Val Leu
65              70              75              80

Tyr Cys Val Val Ile Ile Gln Lys Asn Tyr Arg Ala Phe Leu Leu Arg
            85              90              95

Arg Arg Phe Leu His Leu Lys Lys Ala Ala Ile Val Phe Gln Lys Gln
            100             105             110

Leu Arg Gly Gln Ile Ala Arg Arg Val Tyr Arg Gln Phe Ala Gly Arg
        115             120             125

Glu Lys Gly Ala Arg Xaa Lys Lys
    130             135
```

```
<210> 6830
<211> 69
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6056

```
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6830
Asn Ser Leu Ala Lys Glu Thr Leu Glu Pro Leu Ser Gln Ala Ala Trp
 1               5                  10                  15

Leu Leu Gln Val Lys Lys Thr Thr Asp Ser Asp Ala Lys Xaa Ile Tyr
            20                  25                  30

Glu Arg Cys Thr Ser Leu Ser Ala Val Gln Ile Ile Lys Xaa Leu Asn
            35                  40                  45

Ser Tyr Thr Pro Ile Asp Asp Phe Glu Lys Arg Val Thr Pro Ser Phe
        50                  55                  60

Val Arg Lys Val Gln
 65
```

```
<210> 6831
<211> 179
<212> PRT
<213> Homo sapiens

<400> 6831
Gly Lys Arg Tyr Ile Lys Ala Leu Ala Glu Glu Asn Arg Asn Val Val
 1               5                  10                  15

Asp Gly Pro Tyr Ala Gly Val Met Thr Ala Tyr Asp Leu Lys Lys Thr
            20                  25                  30

Leu Ala Val Leu Leu Asp Asn Ile Leu Gln Arg Ile Gly Lys Leu Glu
            35                  40                  45

Ser Lys Val Asp Asn Leu Val Val Asn Gly Thr Gly Thr Asn Ser Thr
        50                  55                  60

Asn Ser Thr Thr Ala Val Pro Ser Leu Val Ala Leu Glu Lys Ile Asn
 65                  70                  75                  80
```

6057

```
Val Ala Asp Ile Ile Asn Gly Ala Gln Glu Lys Cys Val Leu Pro Pro
                 85                  90                  95

Met Asp Gly Tyr Pro His Cys Glu Gly Lys Ile Lys Trp Met Lys Asp
                100             105             110

Met Trp Arg Ser Asp Pro Cys Tyr Ala Asp Tyr Gly Val Asp Gly Ser
        115             120             125

Thr Cys Ser Phe Phe Ile Tyr Leu Ser Glu Val Glu Asn Trp Cys Pro
    130             135             140

His Leu Pro Trp Arg Ala Lys Asn Pro Tyr Glu Glu Ala Asp His Asn
145             150             155             160

Ser Leu Ala Glu Ile Leu Gln Ile Phe Asn Ile Leu Tyr Ser Met Met
                165             170             175

Lys Lys Ala
```

```
<210> 6832
<211> 61
<212> PRT
<213> Homo sapiens

<400> 6832
Ala Cys Arg Asp Val Arg Arg Leu Ser Leu Ser Val Met Ala Leu Lys
  1             5              10                  15

Glu Gln Thr Ile Pro Pro Ser Ala Lys Tyr Gly Gly Arg His Thr Val
            20              25                  30

Thr Met Ile Pro Gly Asp Gly Ile Gly Pro Glu Leu Met Leu His Val
        35              40                  45

Lys Ser Val Phe Arg His Ala Cys Val Thr Ser Gly Leu
    50              55              60
```

```
<210> 6833
<211> 33
<212> PRT
<213> Homo sapiens

<400> 6833
Gln Lys Leu Ala Pro Ile Ser Ile Ile Tyr Gln Ile Ser Pro Ser Leu
```

6058

```
     1                    5                    10                   15
Asn Val Ser Leu Leu Leu Thr Leu Ser Ile Leu Ser Ile Ile Ala Gly
                20                   25                   30

Ser
```

<210> 6834
<211> 29
<212> PRT
<213> Homo sapiens

<400> 6834
```
Thr Ile Thr Asn Thr Thr Asn Gln Tyr Ser Ser Leu Ile Ile Ile Met
  1                    5                    10                   15
                                                                      \
Ala Ile Ala Ile Lys Leu Gly Ile Ala Pro Phe His Phe
                20                   25
```

<210> 6835
<211> 21
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6835
```
Xaa Gly Leu Asn Gln Thr Gln Leu Arg Lys Ile Leu Ala Tyr Ser Ser
  1                    5                    10                   15

Ile Thr His Ile Xaa
                20
```

<210> 6836
<211> 29
<212> PRT

6059

<213> Homo sapiens

<400> 6836
Thr Ile Thr Asn Thr Thr Asn Gln Tyr Ser Ser Leu Ile Ile Ile Met
 1   5   10   15

Ala Ile Ala Ile Lys Leu Gly Ile Ala Pro Phe His Phe
            20   25

<210> 6837
<211> 56
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (43)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6837
Leu Thr Pro Leu Ile Pro Ser Thr Leu Xaa Ser Leu Gly Xaa Leu Pro
 1   5   10   15

Pro Leu Thr Gly Phe Leu Pro Lys Trp Ala Ile Ile Glu Glu Phe Thr
            20   25   30

Thr Asn Xaa Ser Leu Ile Ile Pro Thr Ile Xaa Xaa His Ile Thr Ser
            35   40   45

6060

Leu Asn Ser Asn Ser Asn Tyr Ala
        50   55

<210> 6838
<211> 53
<212> PRT
<213> Homo sapiens

<400> 6838
Leu Pro Gln Leu Asn Gly Tyr Ile Glu Lys Ser Thr Pro Tyr Glu Cys
 1   5   10   15

Gly Phe Asp Pro Ile Ser Pro Ala Arg Val Pro Phe Ser Ile Lys Phe
            20   25   30

Phe Leu Val Ala Ile Thr Phe Leu Leu Phe Asp Leu Glu Ile Ala Leu
        35   40   45

Leu Leu Pro Leu Pro
        50

<210> 6839
<211> 50
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6839
Ser Xaa Thr Gly Ala Val Ile Leu Ile Ile Ala His Gly Leu Thr Ser
 1   5   10   15

Ser Leu Leu Phe Cys Leu Ala Asn Ser Asn Tyr Glu Arg Thr His Arg
            20   25   30

```
Arg Xaa Ile Ile Leu Ser Gln Gly Leu Gln Thr Leu Leu Pro Leu Ile
        35                  40                  45

Xaa Phe
    50
```

<210> 6840
<211> 16
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6840
```
Ile Ile Met Ala Ile Xaa Ile Lys Leu Gly Ile Ala Pro Phe His Phe
 1               5                  10                  15
```

<210> 6841
<211> 152
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (61)

6062

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (70)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (75)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (77)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (87)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (88)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (94)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (101)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (117)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (119)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (123)
<223> Xaa equals any of the naturally occurring L-amino acids
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6063

<220>
<221> SITE
<222> (127)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (130)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6841
Pro Leu Ser Lys Val Pro Leu Gln Xaa Asn Phe Gln Asp Asn Gln Phe
 1   5   10   15

Gln Gly Lys Trp Tyr Val Val Gly Leu Ala Xaa Asn Ala Ile Leu Arg
                20   25   30

Glu Asp Lys Asp Pro Gln Lys Met Tyr Ala Thr Ile Tyr Glu Leu Lys
            35   40   45

Glu Asp Xaa Ser Tyr Asn Val Thr Ser Val Leu Phe Xaa Lys Lys Lys
        50   55   60

Cys Asp Tyr Trp Ile Xaa Thr Phe Val Pro Xaa Cys Xaa Pro Gly Glu
65   70   75   80

Phe Thr Leu Gly Asn Ile Xaa Xaa Tyr Pro Gly Leu Thr Xaa Tyr Leu
                85   90   95

Val Arg Val Val Xaa Thr Thr Thr Thr Ser Met Leu Trp Cys Ser Ser
            100   105   110

Lys Lys Phe Leu Xaa Thr Xaa Asn Ser Ser Xaa Ser Pro Leu Xaa Lys
        115   120   125

Asn Xaa Glu Leu Asp Phe Arg Asn Leu Lys Glu Lys Leu Pro Pro Pro
        130   135   140

Pro Pro Asn Ser Pro Gly Pro Pro
145   150

<210> 6842
<211> 116
<212> PRT
<213> Homo sapiens

<220>
<221> SITE

6064

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<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (72)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (97)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (98)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (102)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (108)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (113)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6842
Trp Gly Met Ser Cys His Gly Leu Gly Arg Thr Glu Ser Asn Arg Thr
 1               5                  10                  15

Leu Leu Leu Pro Trp Pro His Leu Val Gln His Arg Arg Pro Lys Pro
            20              25                  30

Gly Leu Ser Pro Leu Ser Pro Thr His Leu Ser Leu Pro Arg Lys Lys
         35              40                  45

Lys Cys Asp Tyr Trp Ile Arg Thr Phe Val Pro Xaa Cys Gln Pro Gly
    50              55                  60

Glu Phe Thr Leu Gly Asn Ile Xaa Ser Tyr Pro Gly Leu Thr Ser Tyr
 65              70                  75                  80

Leu Val Arg Met Val Ser Thr Asn Tyr Asn Gln His Ala Met Val Phe
                85                  90                  95
```

6065

Xaa Xaa Lys Val Ser Xaa Asn Arg Glu Val Leu Xaa Glu His Leu Leu
            100   105   110

Xaa Glu Asn Gln
        115

<210> 6843
<211> 70
<212> PRT
<213> Homo sapiens

<400> 6843
Arg Thr Gly Arg Trp Gly Gln Glu Met Val Leu Leu Ser Thr Leu Gly
  1   5   10   15

Ile Val Phe Gln Gly Glu Gly Pro Pro Ile Ser Ser Cys Asp Thr Gly
              20   25   30

Thr Met Ala Asn Cys Glu Arg Thr Phe Ile Ala Ile Lys Pro Asp Gly
          35   40   45

Val Gln Arg Gly Leu Val Gly Glu Ile Ile Lys Arg Phe Glu Gln Lys
      50   55   60

Gly Ser Ala Leu Leu Val
 65   70

<210> 6844
<211> 138
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (122)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (131)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (132)
<223> Xaa equals any of the naturally occurring L-amino acids

6066

```
<400> 6844
Leu Glu Ala Leu Phe Ser Asp Val Asn Met Gln Glu Tyr Pro Asp Leu
 1               5                  10                  15

Ile His Ile Tyr Lys Gly Phe Glu Asn Val Ile His Asp Lys Leu Pro
             20                  25                  30

Leu Gln Glu Ser Glu Glu Glu Glu Arg Glu Glu Arg Ser Gly Leu Gln
         35                  40                  45

Leu Ser Leu Glu Gln Gly Thr Gly Glu Asn Ser Phe Arg Ser Leu Thr
     50                  55                  60

Trp Pro Pro Ser Gly Ser Pro Ser His Ala Gly Thr Thr Pro Pro Glu
 65                  70                  75                  80

Asn Gly Leu Ser Glu His Pro Cys Glu Thr Glu Gln Ile Asn Ala Lys
                 85          .        90                  95

Arg Lys Asp Thr Thr Ser Asp Lys Asp Asp Ser Leu Gly Ser Gln Gln
             100                 105                 110

Thr Asn Glu Gln Cys Ala Gln Lys Ala Xaa Pro Thr Glu Val Cys Glu
         115                 120                 125

Pro Ile Xaa Xaa Pro Ser Glu Ile Trp Gly
     130                 135
```

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<210> 6845
<211> 133
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (128)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6845
Val His Leu Thr Lys Gly Xaa Lys Ala Gly Ala Pro Pro Arg Cys Gly
 1               5                  10                  15

Arg Ser Arg Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Asp
```

6067

```
                   20                      25                      30

Ser Val Leu Arg Gly Cys Ser Leu Glu Gln Arg Ser Phe Ile Ser Val
        35                  40                  45

Arg Leu Leu Ser Tyr Leu Ser Ala Cys Arg His Pro Met Glu Asp Ser
    50                  55                  60

Met Asp Met Asp Met Ser Pro Leu Arg Pro Gln Asn Tyr Leu Phe Gly
65                  70                  75                  80

Cys Glu Leu Lys Ala Asp Lys Asp Tyr His Phe Lys Val Asp Asn Asp
            85                  90                  95

Glu Asn Glu His Gln Leu Ser Leu Arg Thr Val Ser Leu Gly Ala Gly
            100                 105                 110

Ala Lys Asp Glu Leu His Ile Val Glu Ala Glu Ala Met Asn Tyr Xaa
        115                 120                 125

Gly Ser Pro Leu Lys
        130
```

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<210> 6846
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<212> PRT
<213> Homo sapiens

<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6846
Glu Lys Ser Arg Glu His Glu Ile Asp Gly Arg Ser Ile Ser Leu Tyr
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Tyr Thr Gly Glu Lys Gly Gln Asn Gln Asp Tyr Arg Gly Gly Lys Asn
                20                  25                  30

Ser Thr Trp Ser Gly Glu Ser Lys Thr Leu Val Leu Ser Asn Leu Ser
            35                  40                  45

Tyr Ser Ala Thr Glu Glu Thr Leu Gln Glu Val Phe Glu Lys Ala Thr
        50                  55                  60

Phe Ile Lys Val Pro Gln Asn Gln Asn Gly Lys Ser Lys Gly Tyr Ala
65                  70                  75                  80
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6068

Phe Ile Glu Phe Ala Ser Phe Glu Asp Ala Lys Glu Ala Leu Asn Ser
                85   90   95

Cys Asn Lys Arg Glu Ile Glu Gly Arg Ala Ile Arg Leu Glu Leu Gln
            100   105   110

Gly Pro Arg Gly Ser Pro Asn Ala Arg Ser Gln Pro Ser Lys Thr Leu
            115   120   125

Phe Val Lys Gly Leu Ser Glu Asp Thr Thr Glu Glu Thr Leu Xaa Gly
    130   135   140

Val Ile
145

<210> 6847
<211> 110
<212> PRT
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